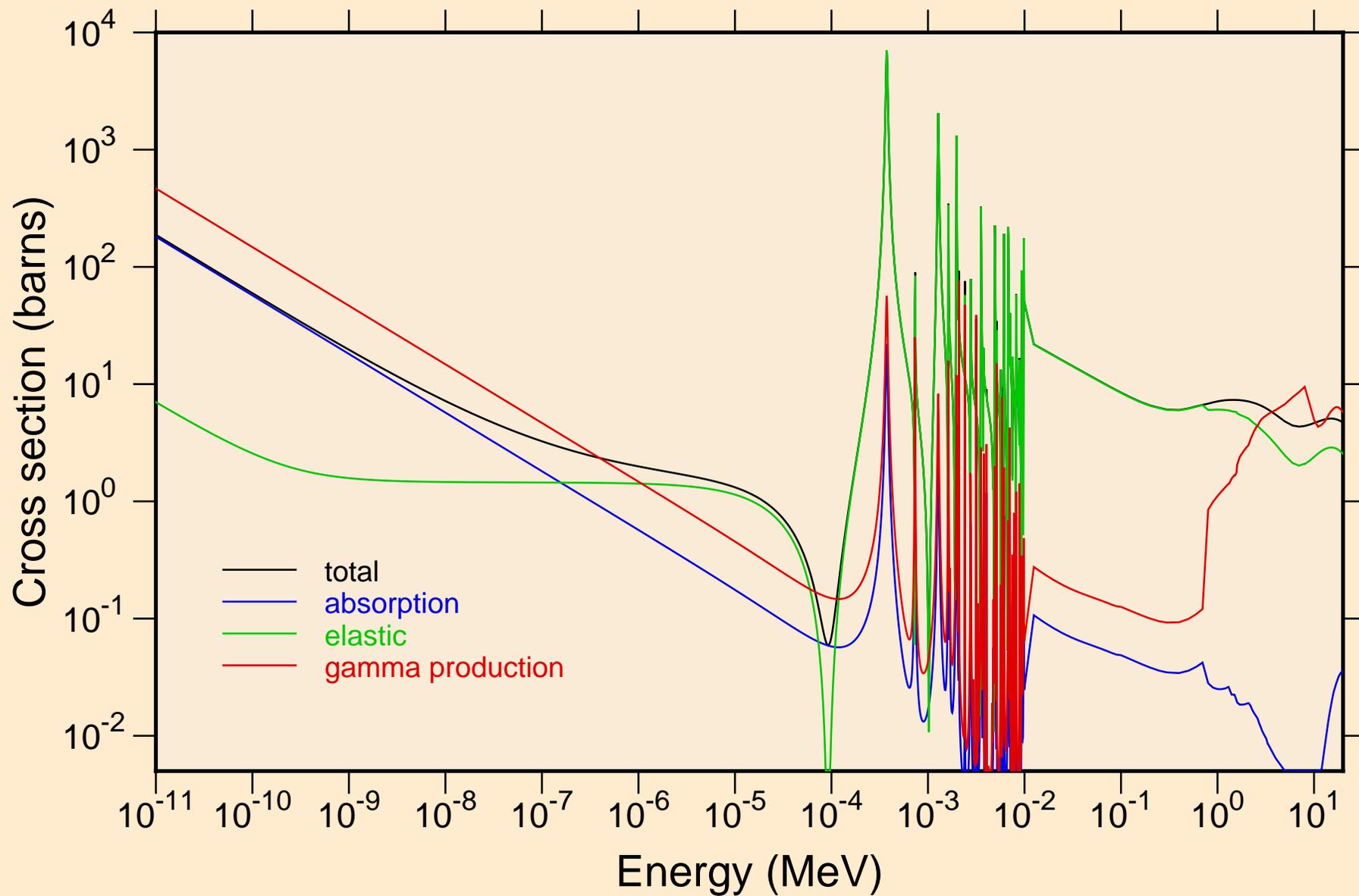


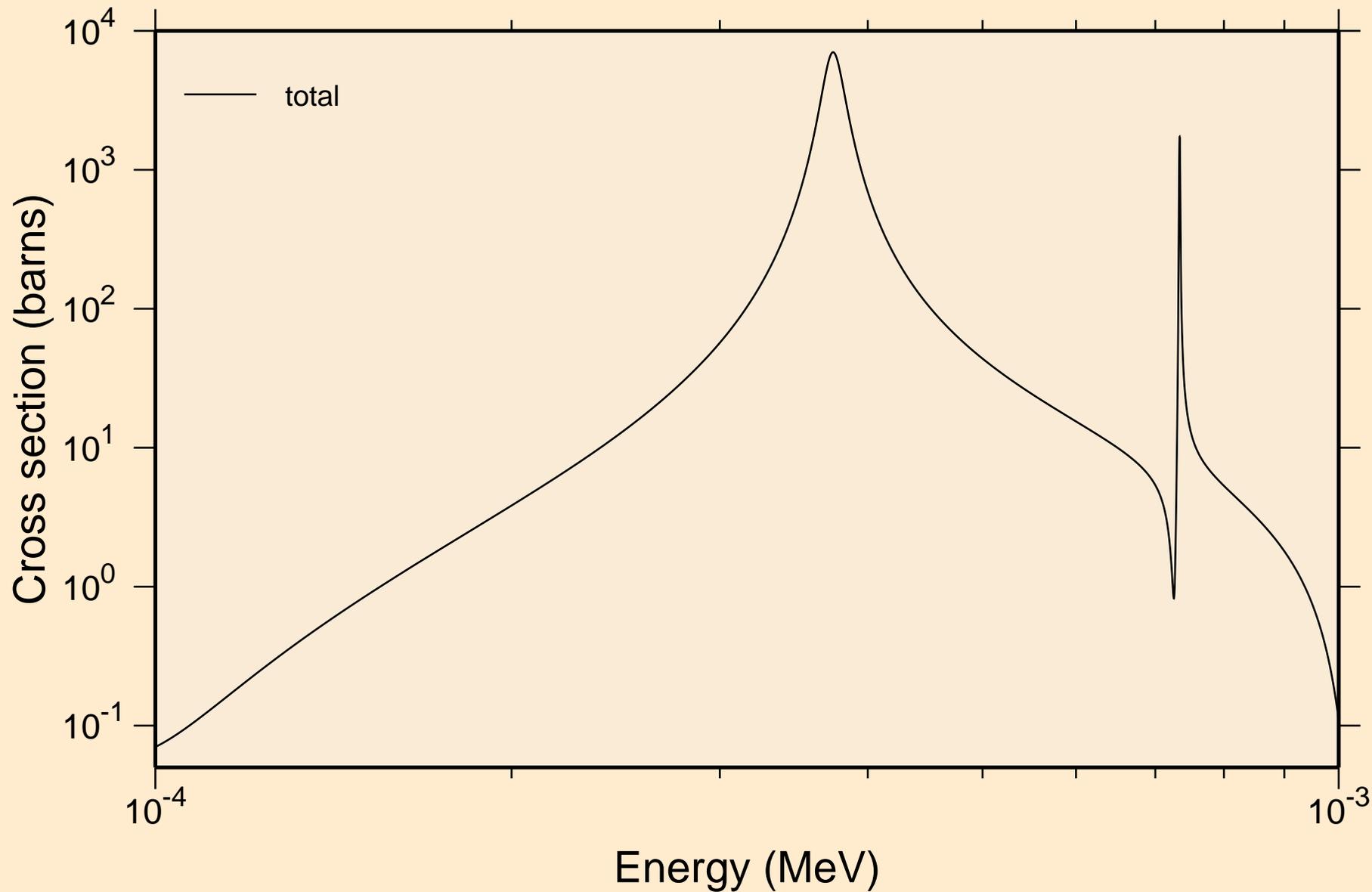
# ADVANCE CALCULATIONS

## Principal cross sections



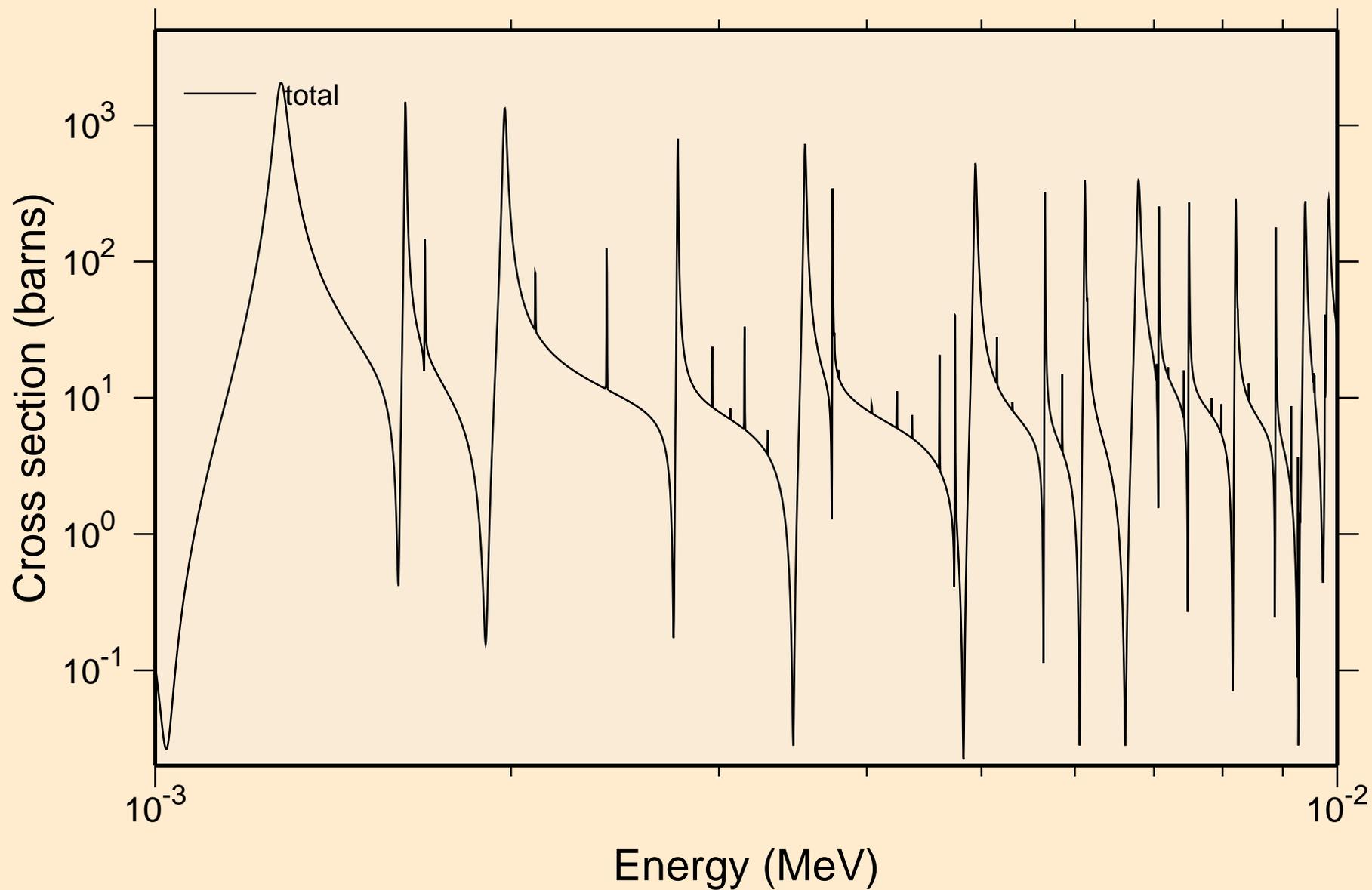
# ADVANCE CALCULATIONS

## resonance total cross section



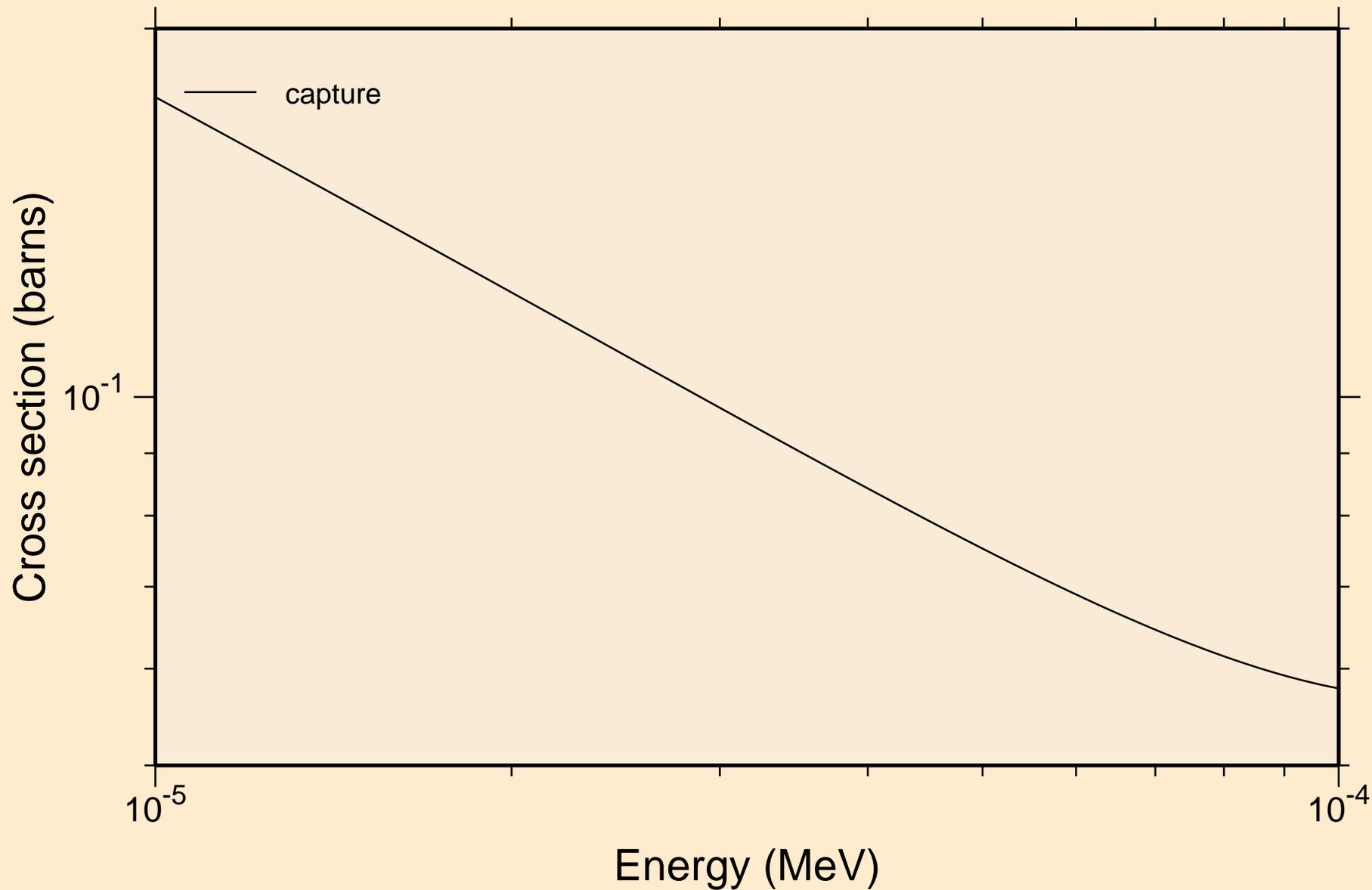
# ADVANCE CALCULATIONS

## resonance total cross section



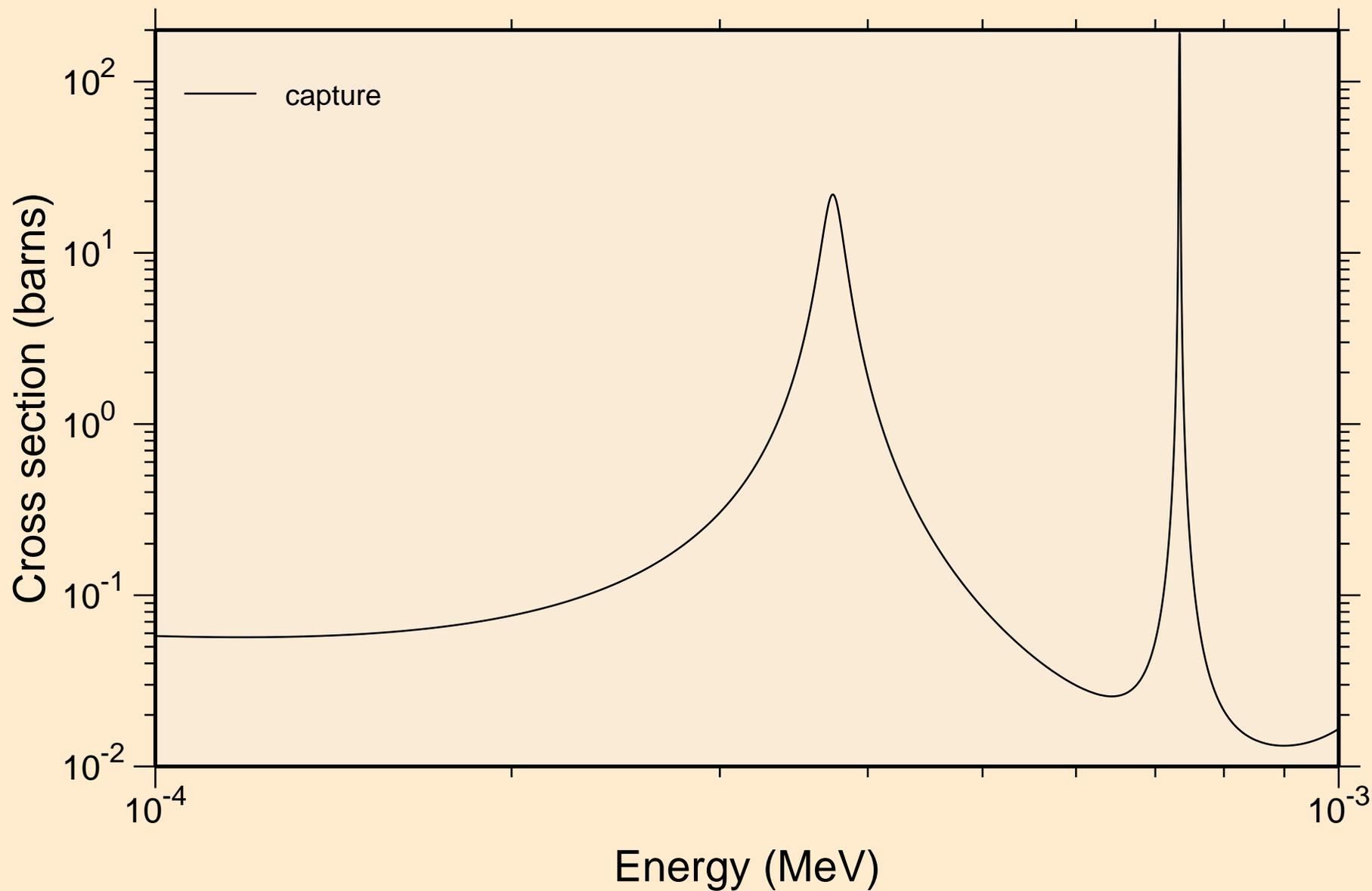
# ADVANCE CALCULATIONS

## resonance absorption cross sections



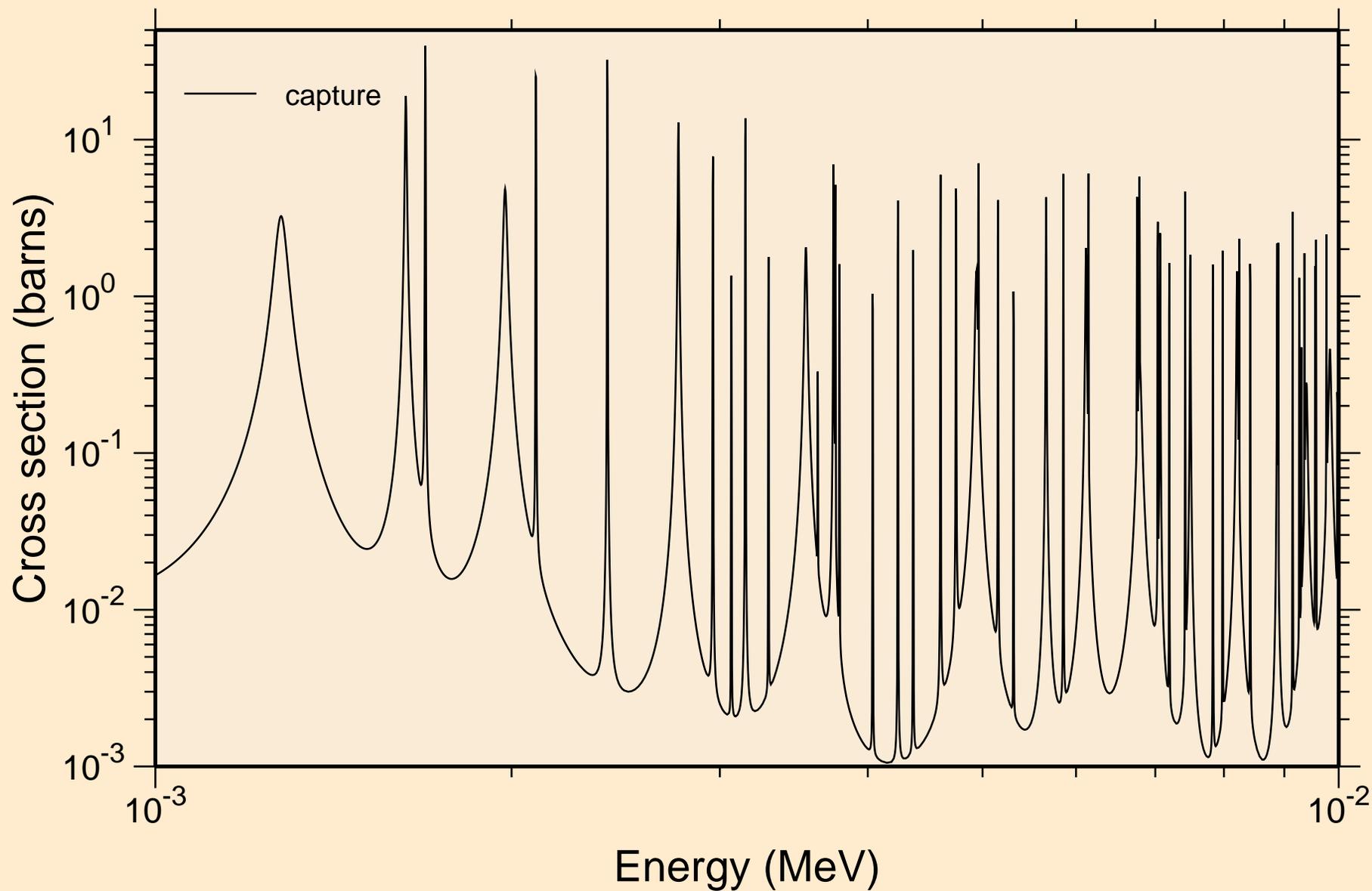
# ADVANCE CALCULATIONS

## resonance absorption cross sections



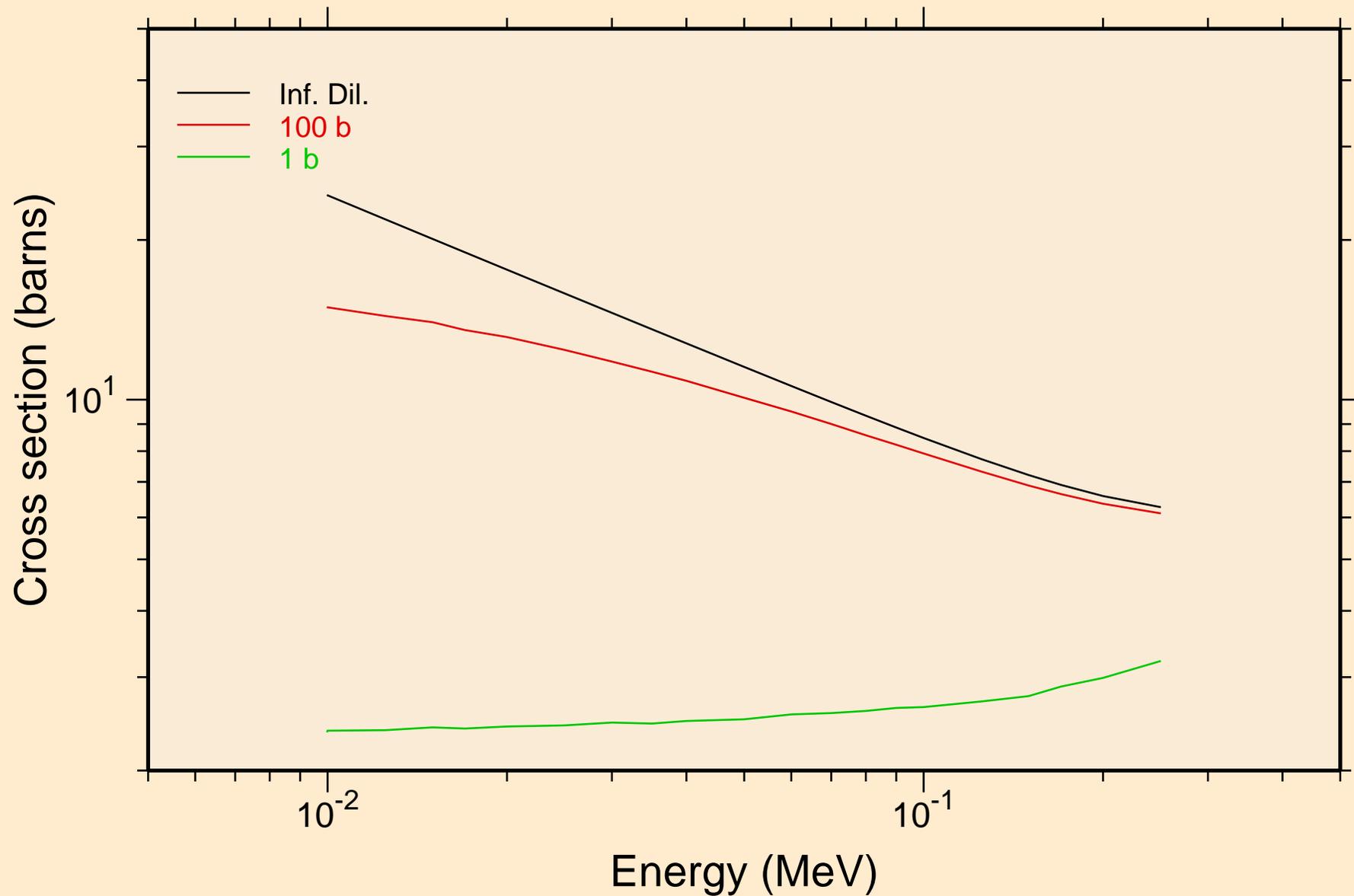
# ADVANCE CALCULATIONS

## resonance absorption cross sections



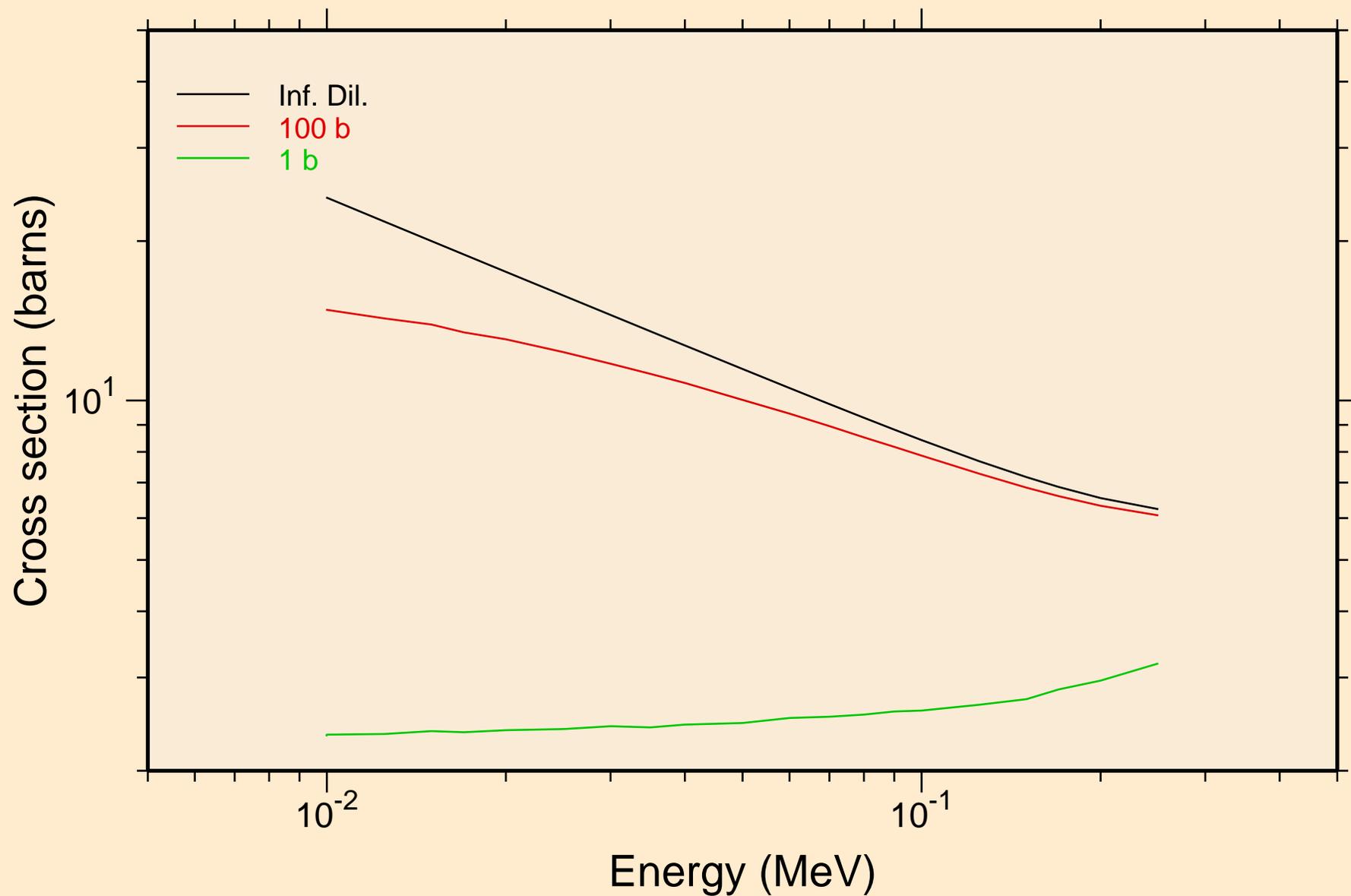
# ADVANCE CALCULATIONS

## UR total cross section



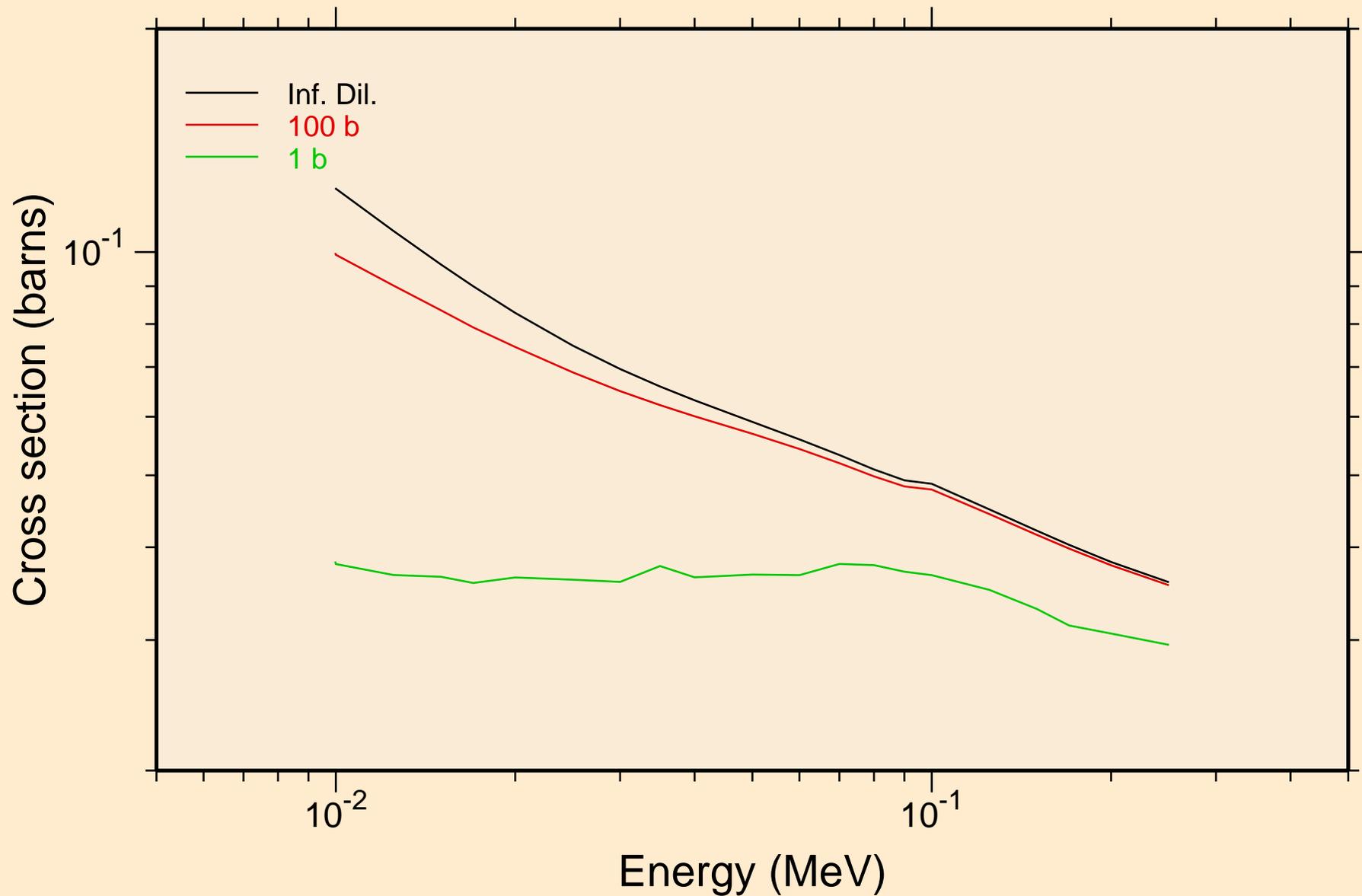
# ADVANCE CALCULATIONS

## UR elastic cross section



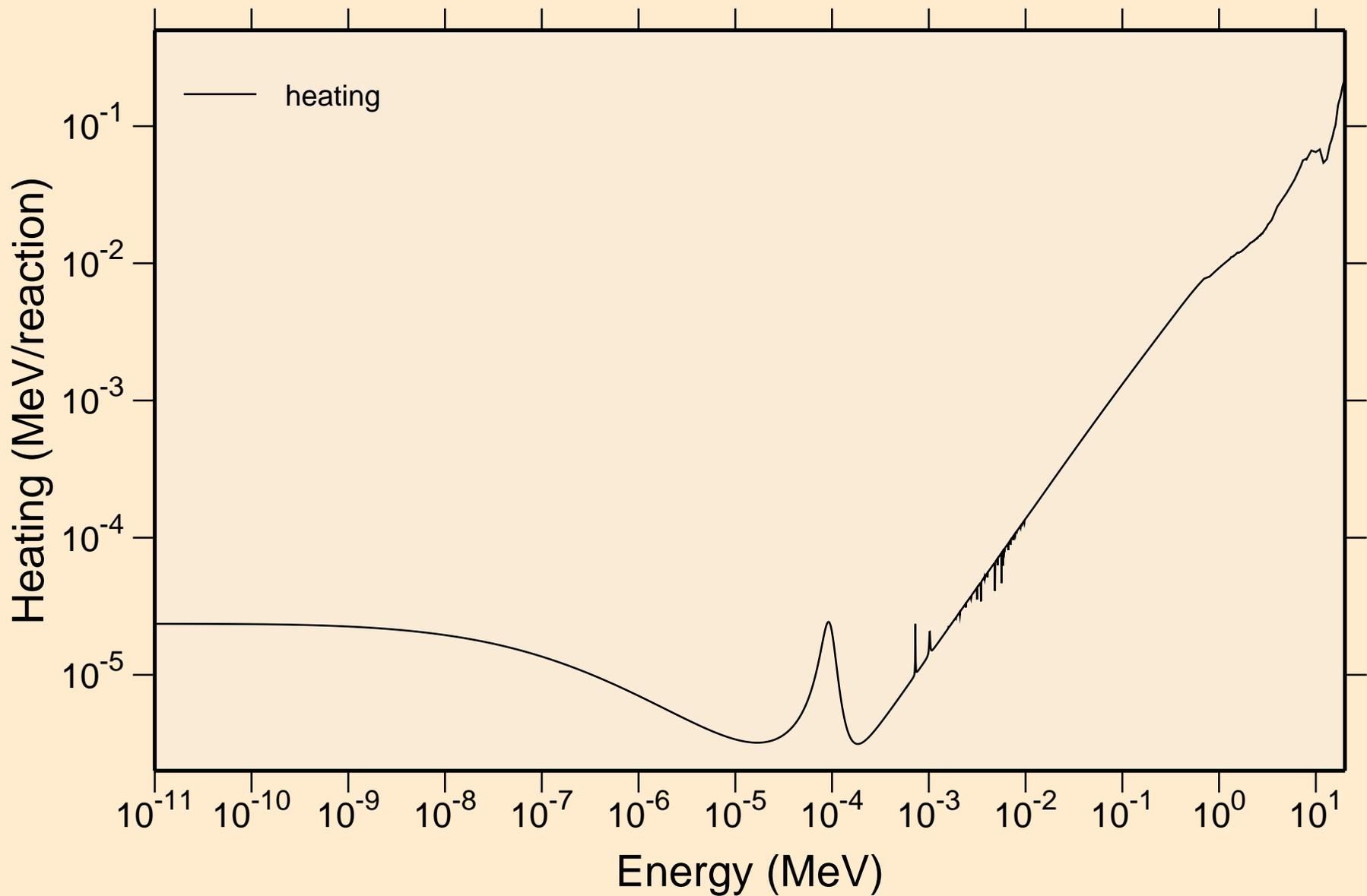
# ADVANCE CALCULATIONS

## UR capture cross section



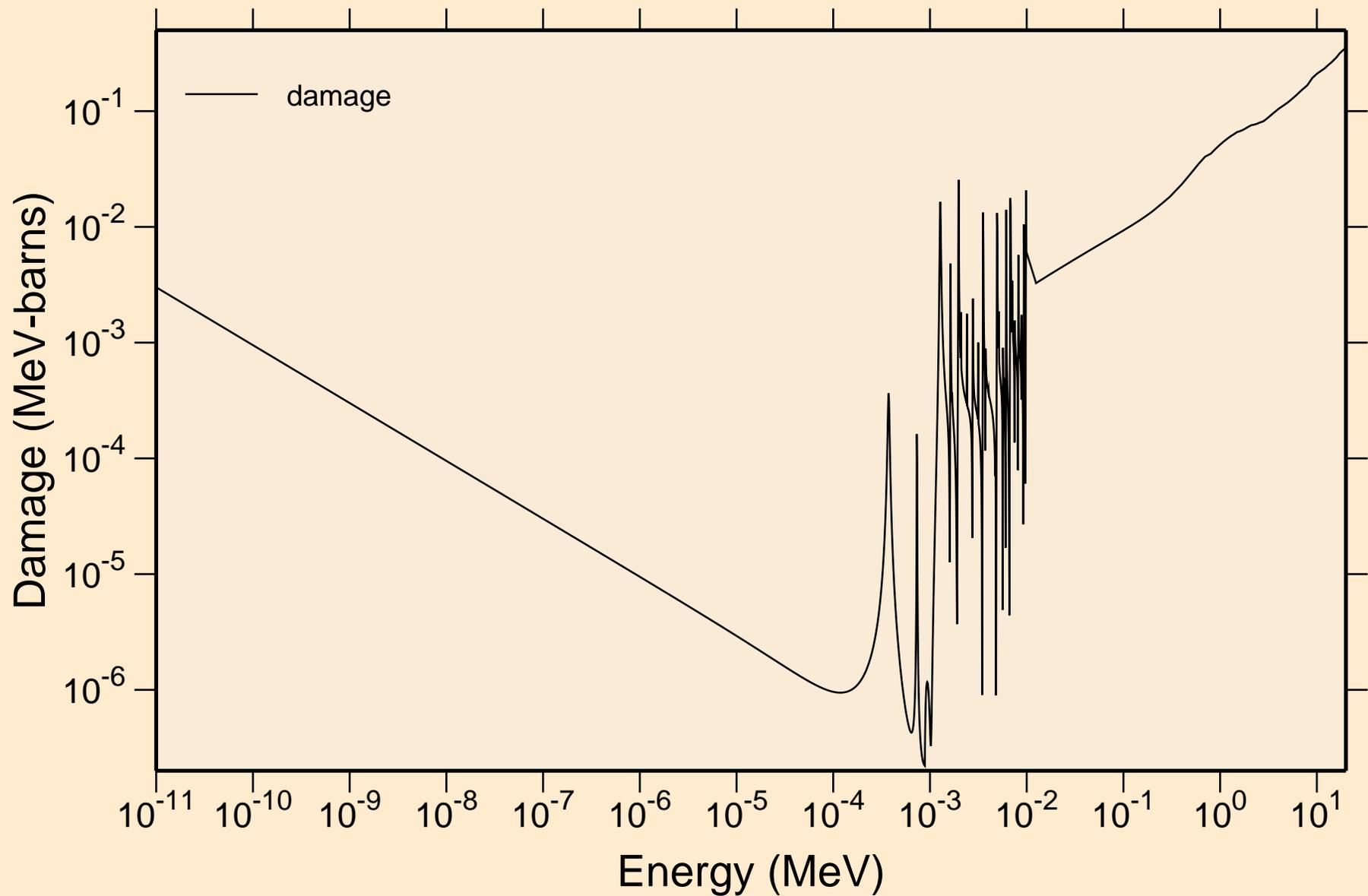
# ADVANCE CALCULATIONS

## Heating



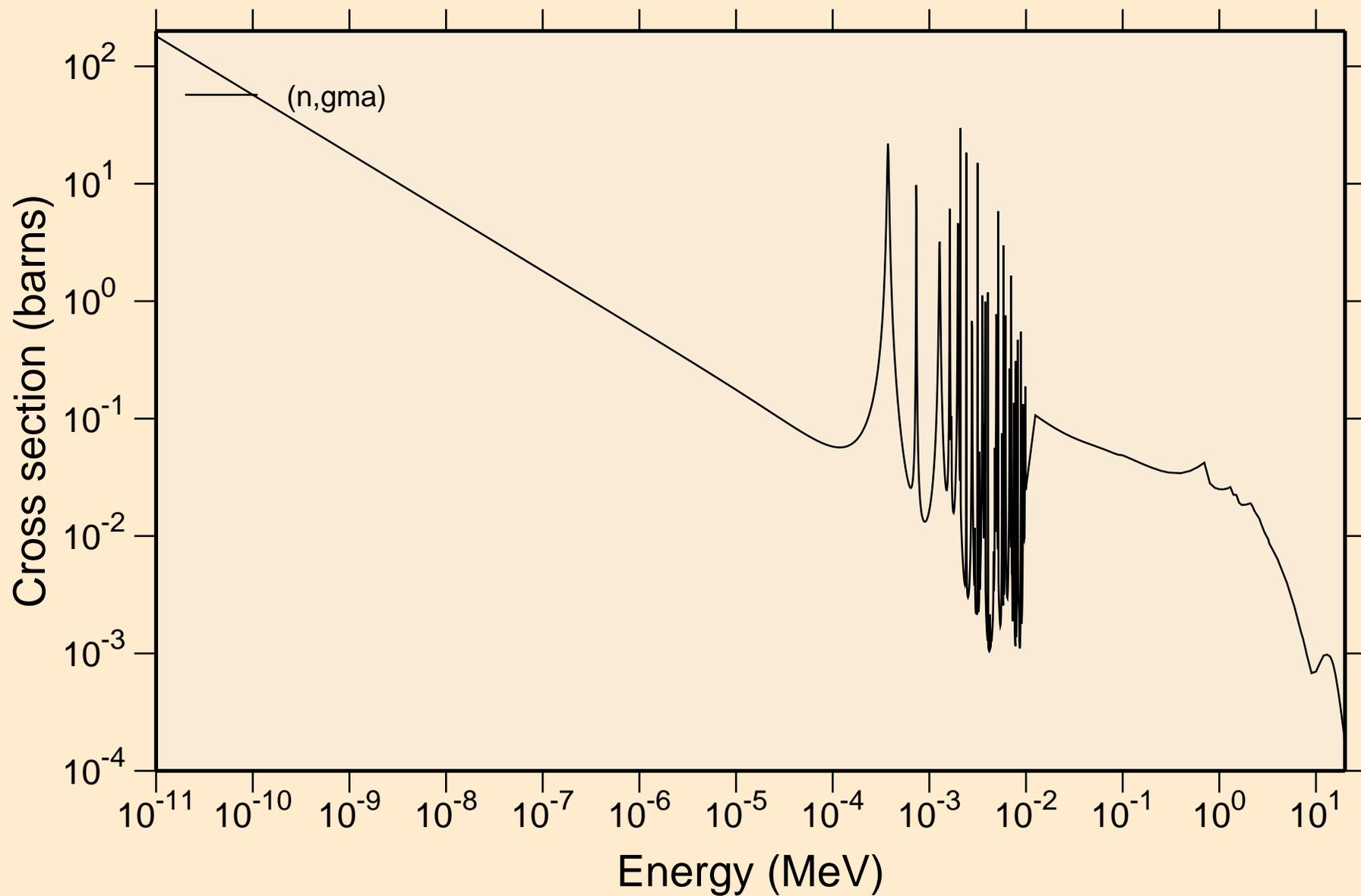
# ADVANCE CALCULATIONS

## Damage



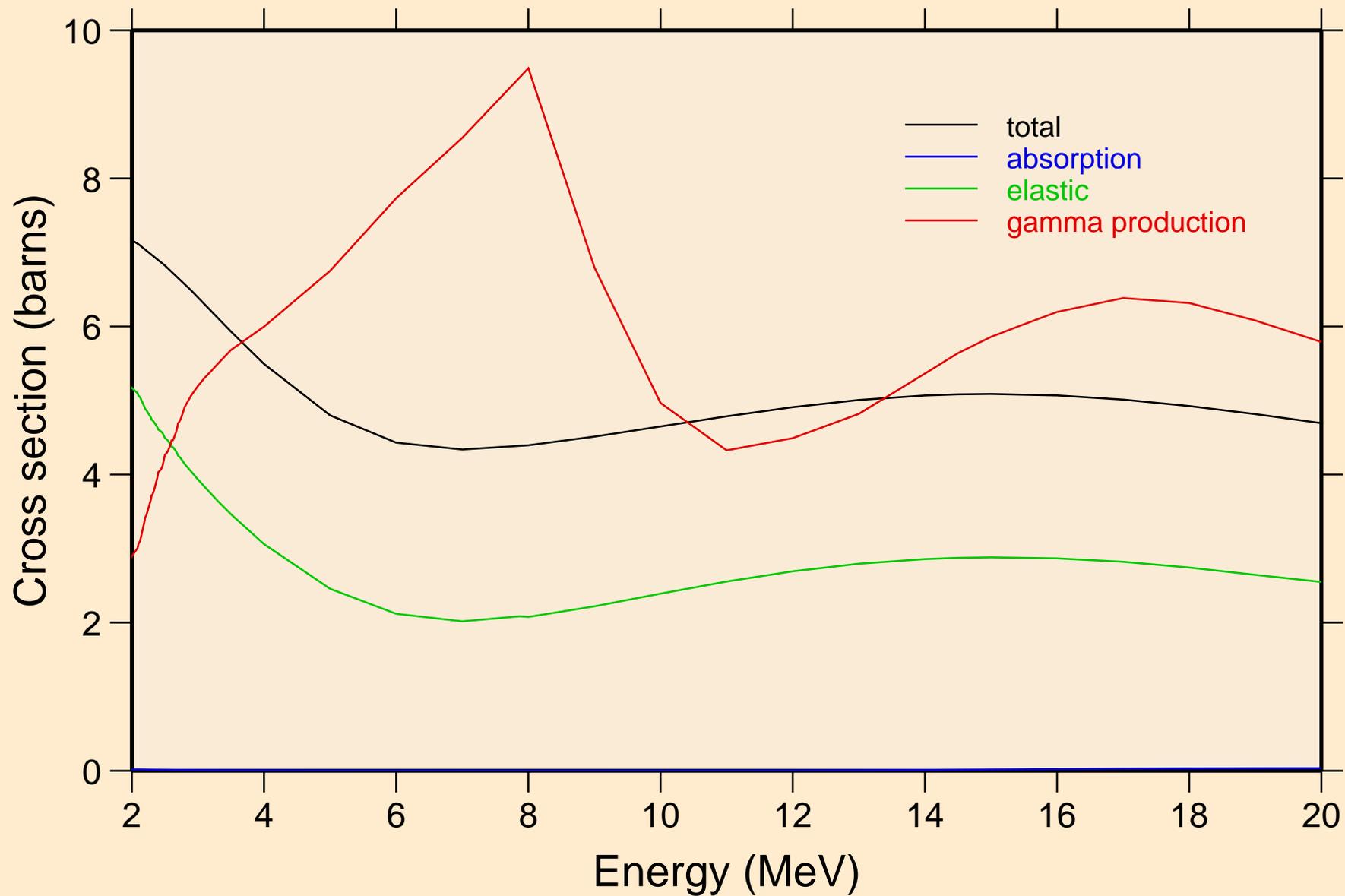
# ADVANCE CALCULATIONS

## Non-threshold reactions



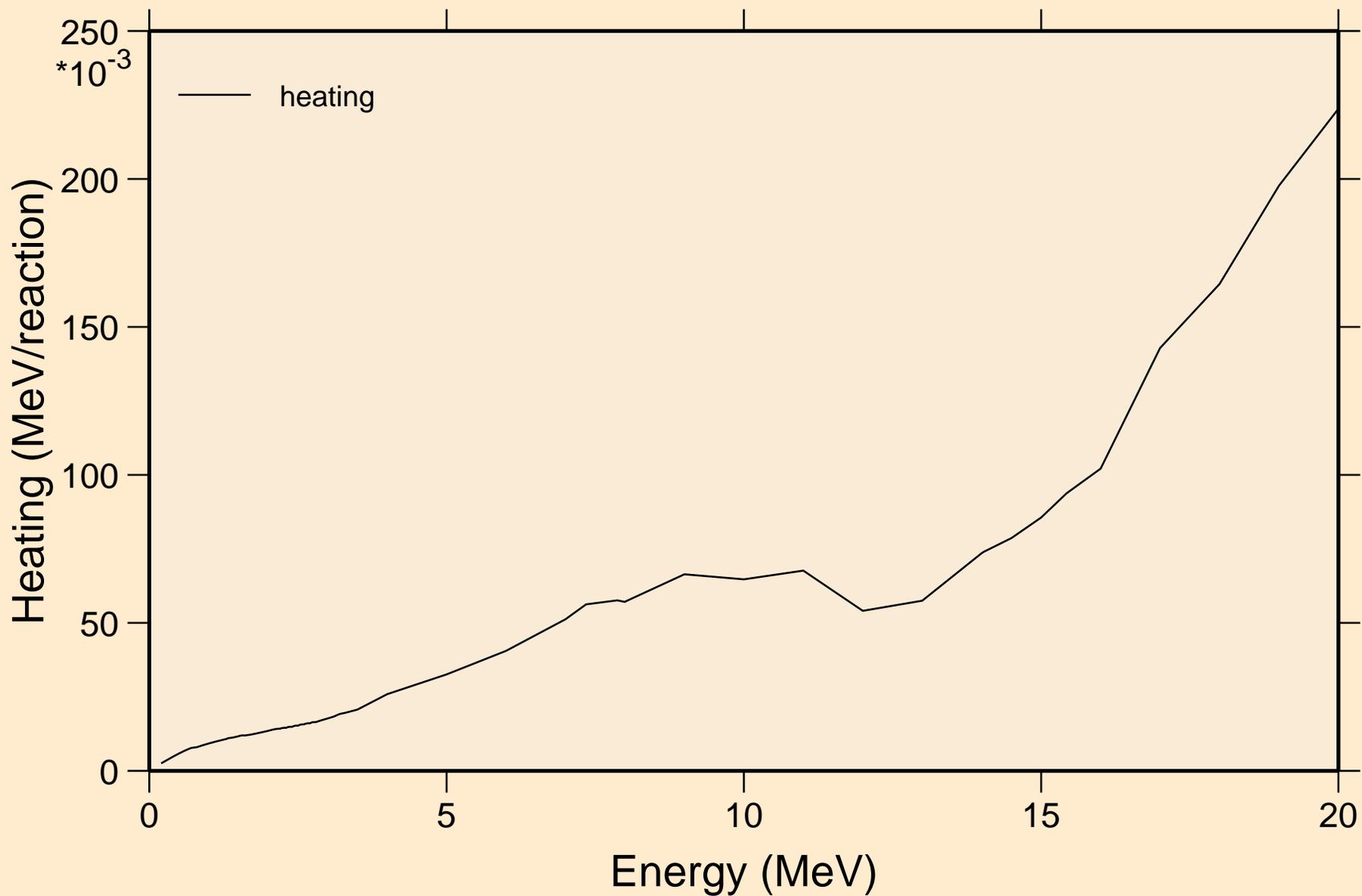
# ADVANCE CALCULATIONS

## Principal cross sections



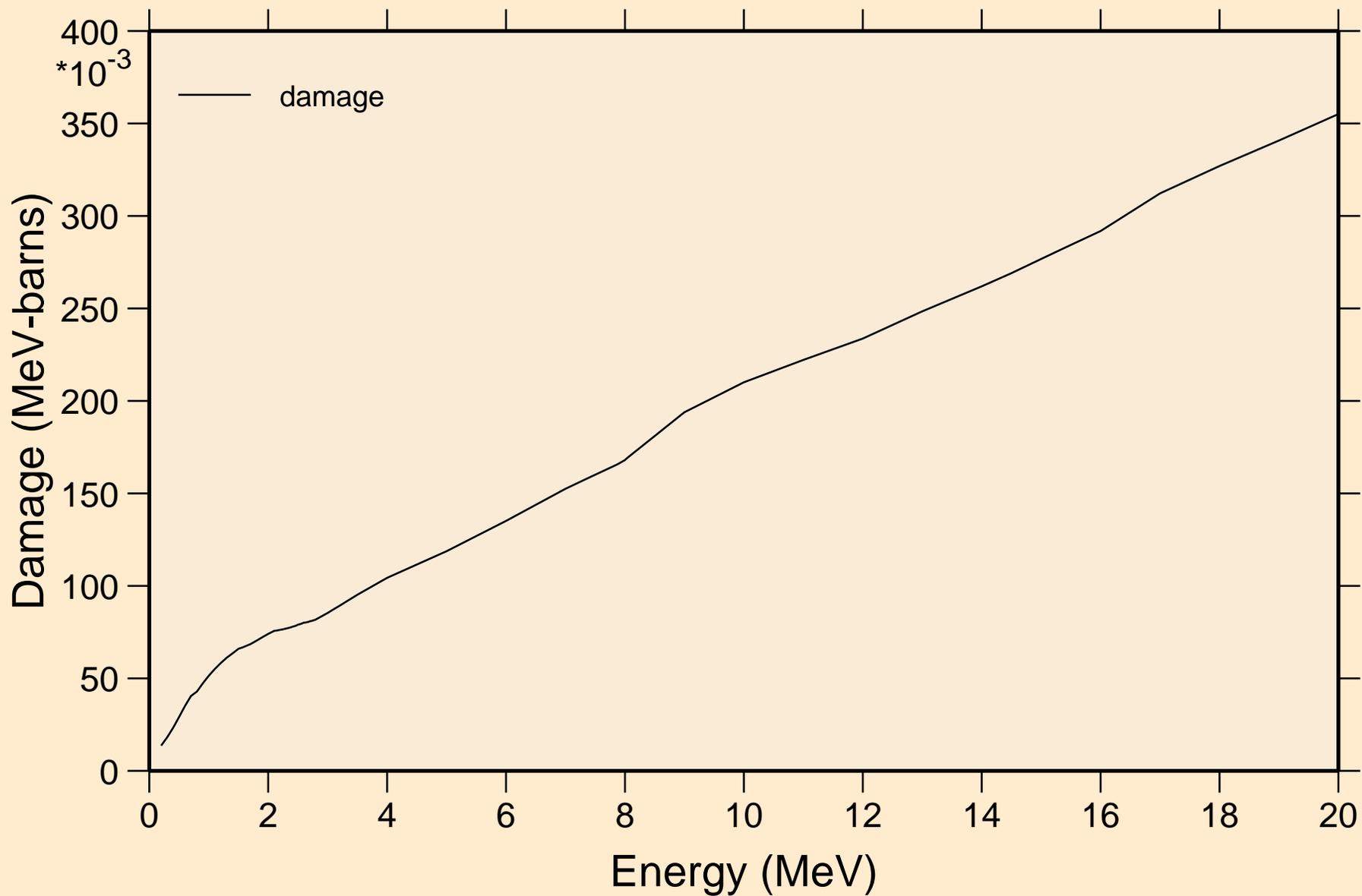
# ADVANCE CALCULATIONS

## Heating



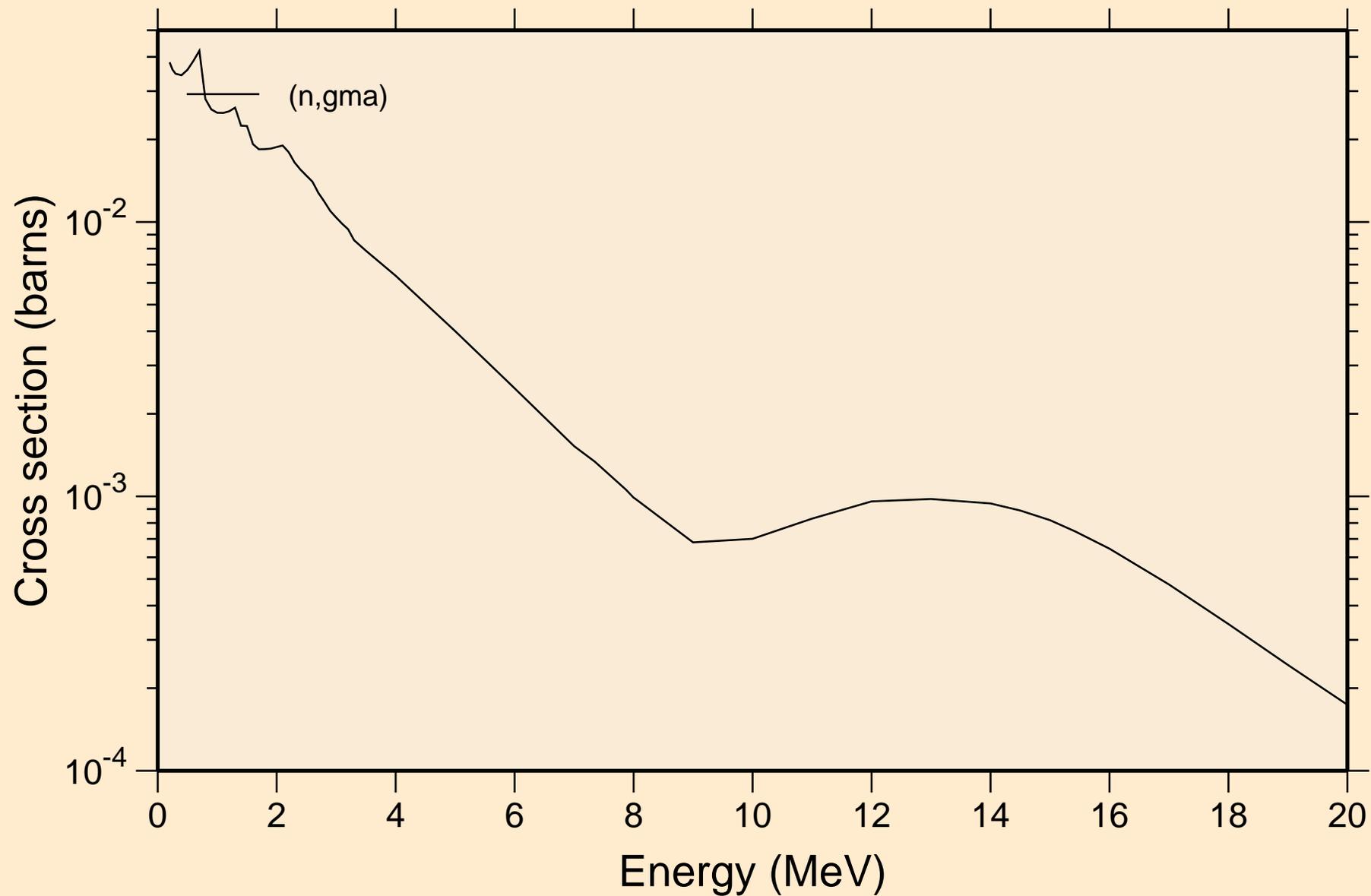
# ADVANCE CALCULATIONS

## Damage



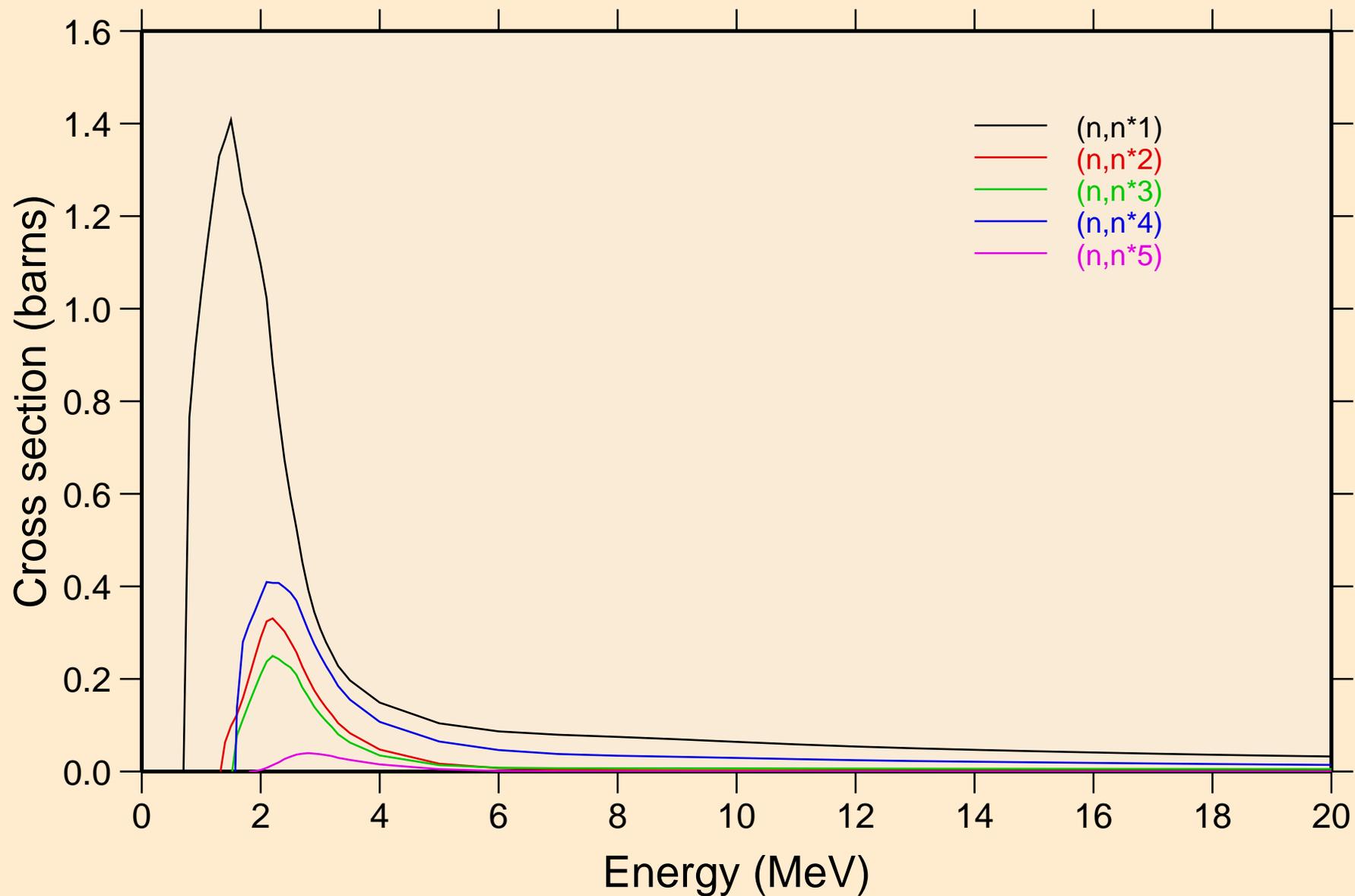
# ADVANCE CALCULATIONS

## Non-threshold reactions



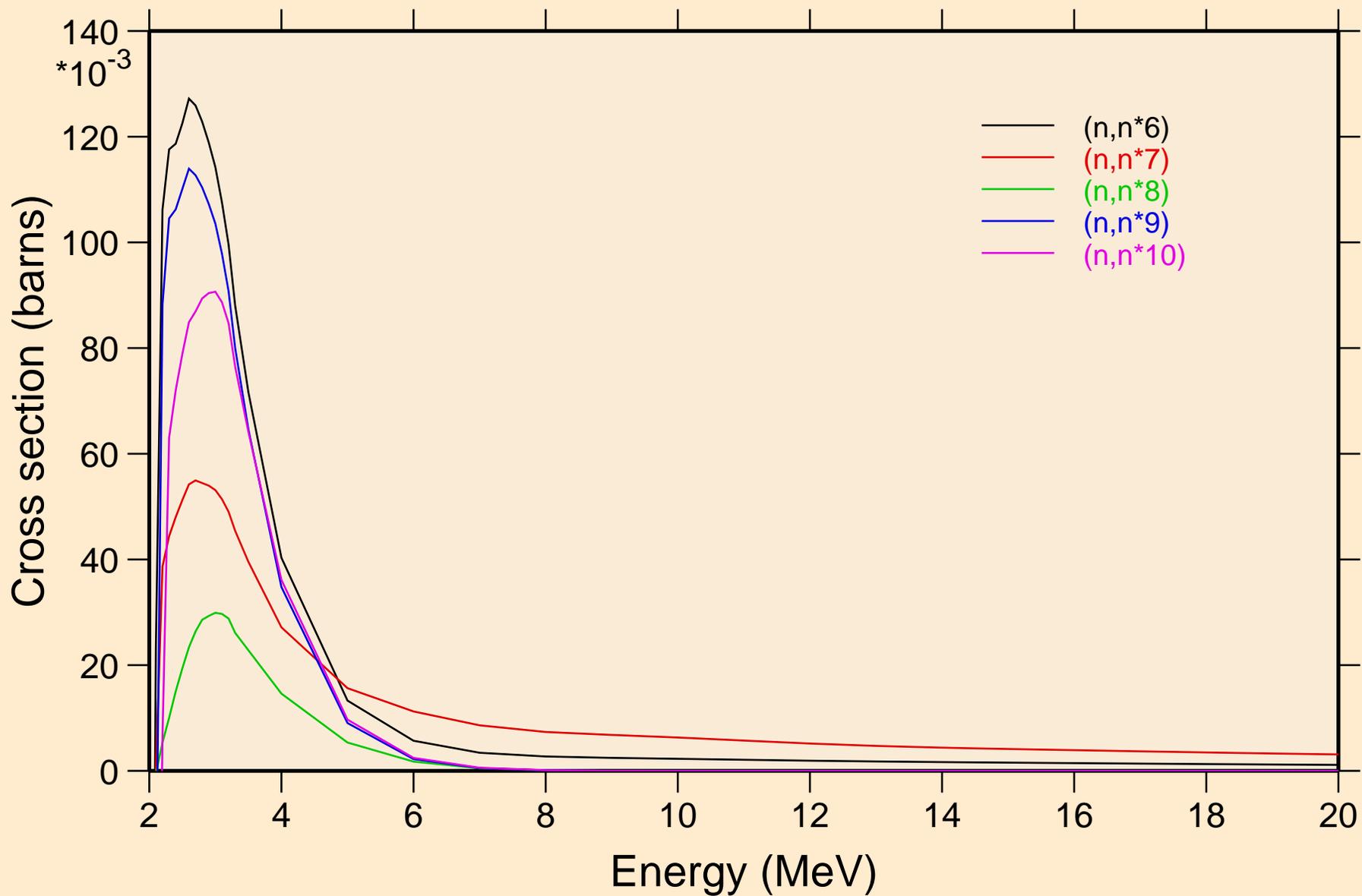
# ADVANCE CALCULATIONS

## Inelastic levels



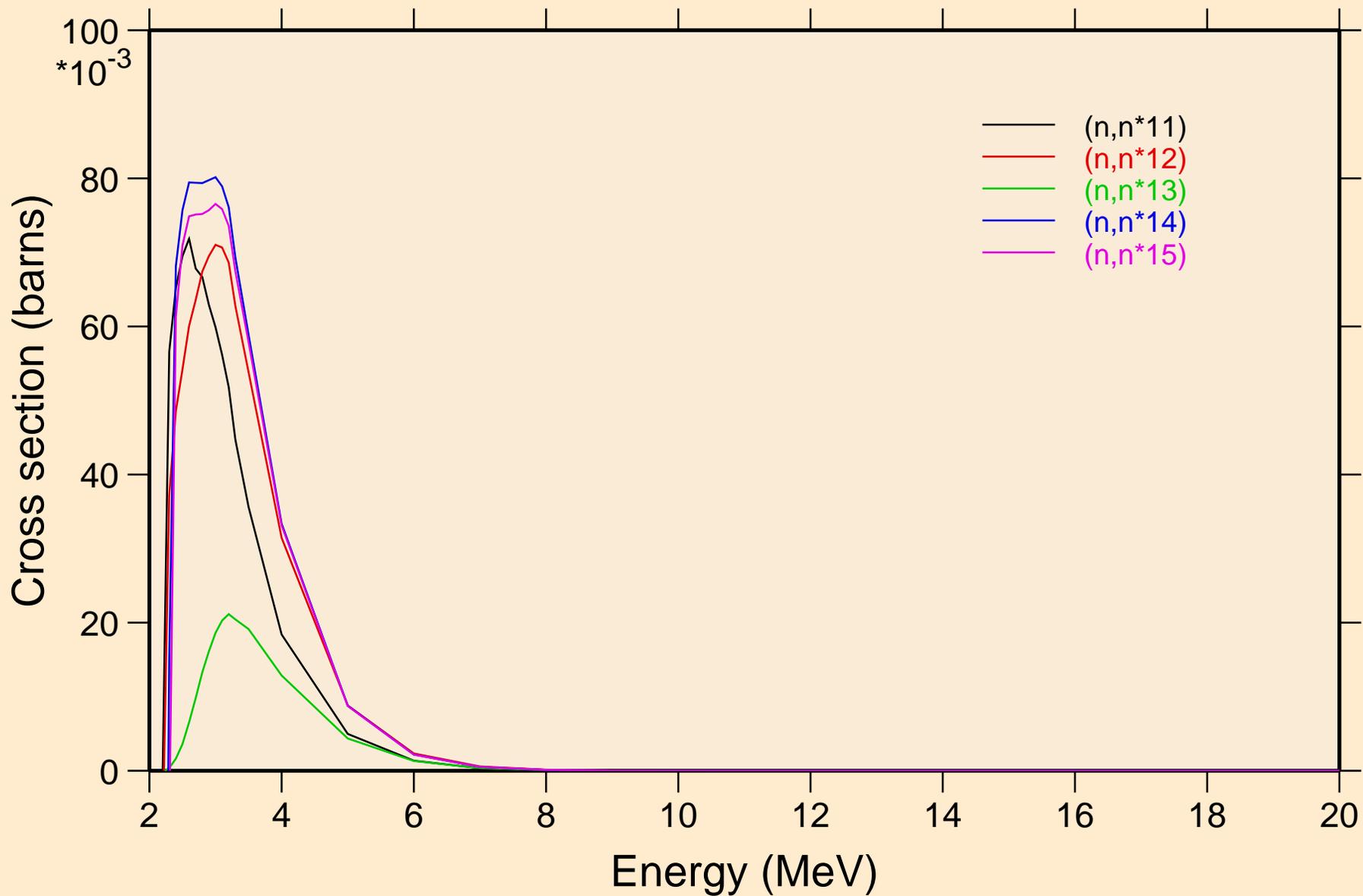
# ADVANCE CALCULATIONS

## Inelastic levels



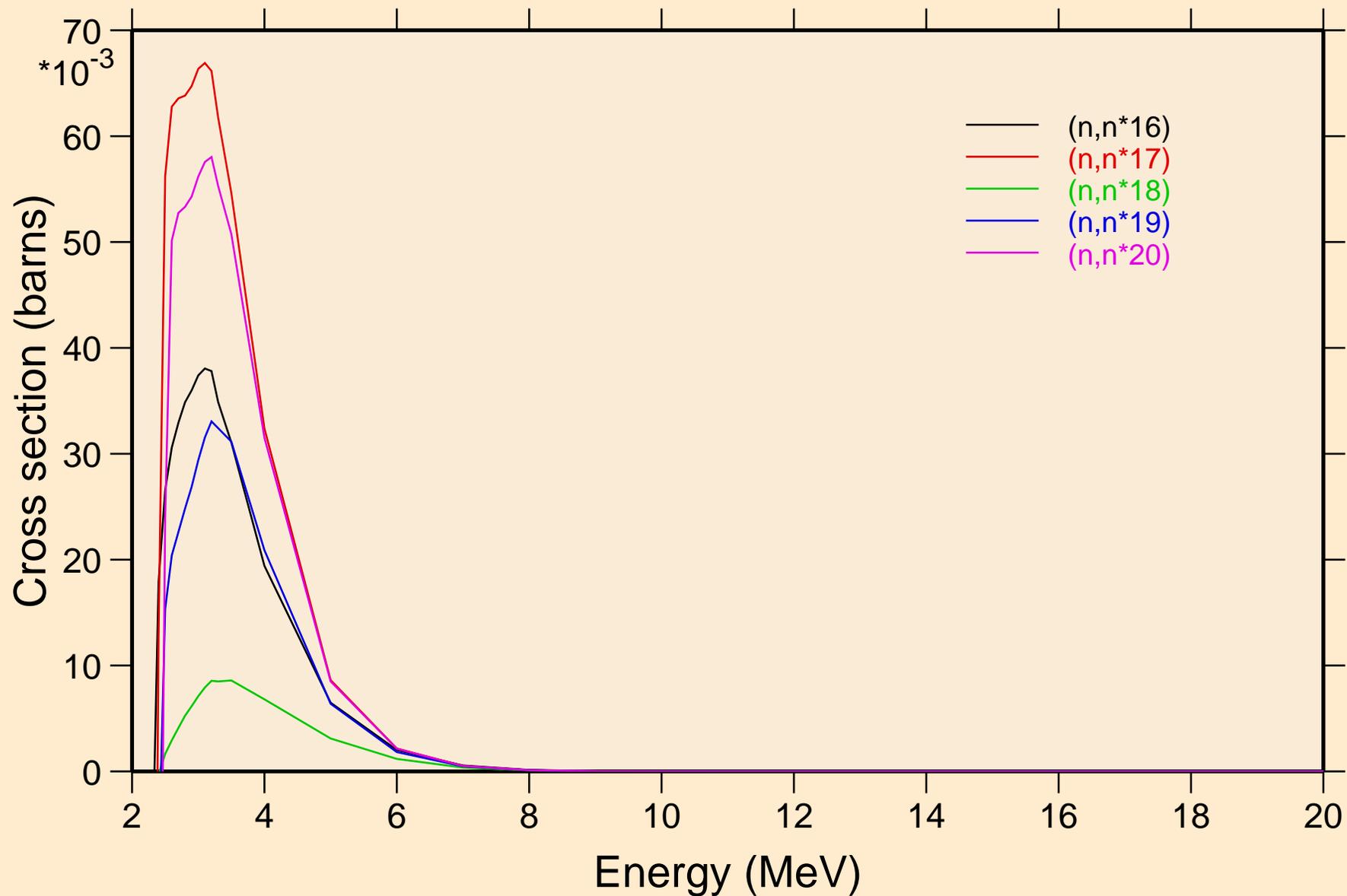
# ADVANCE CALCULATIONS

## Inelastic levels



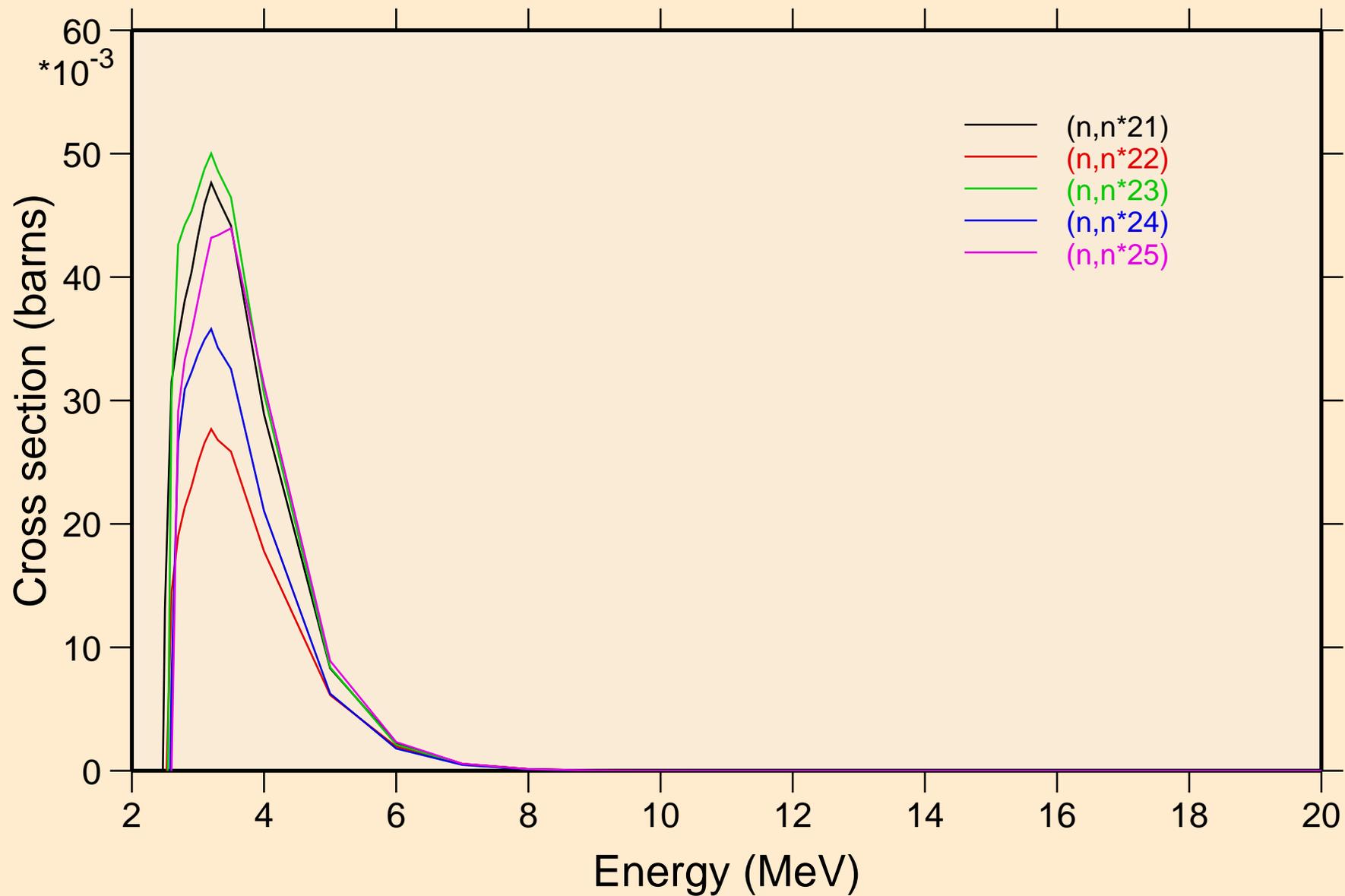
# ADVANCE CALCULATIONS

## Inelastic levels



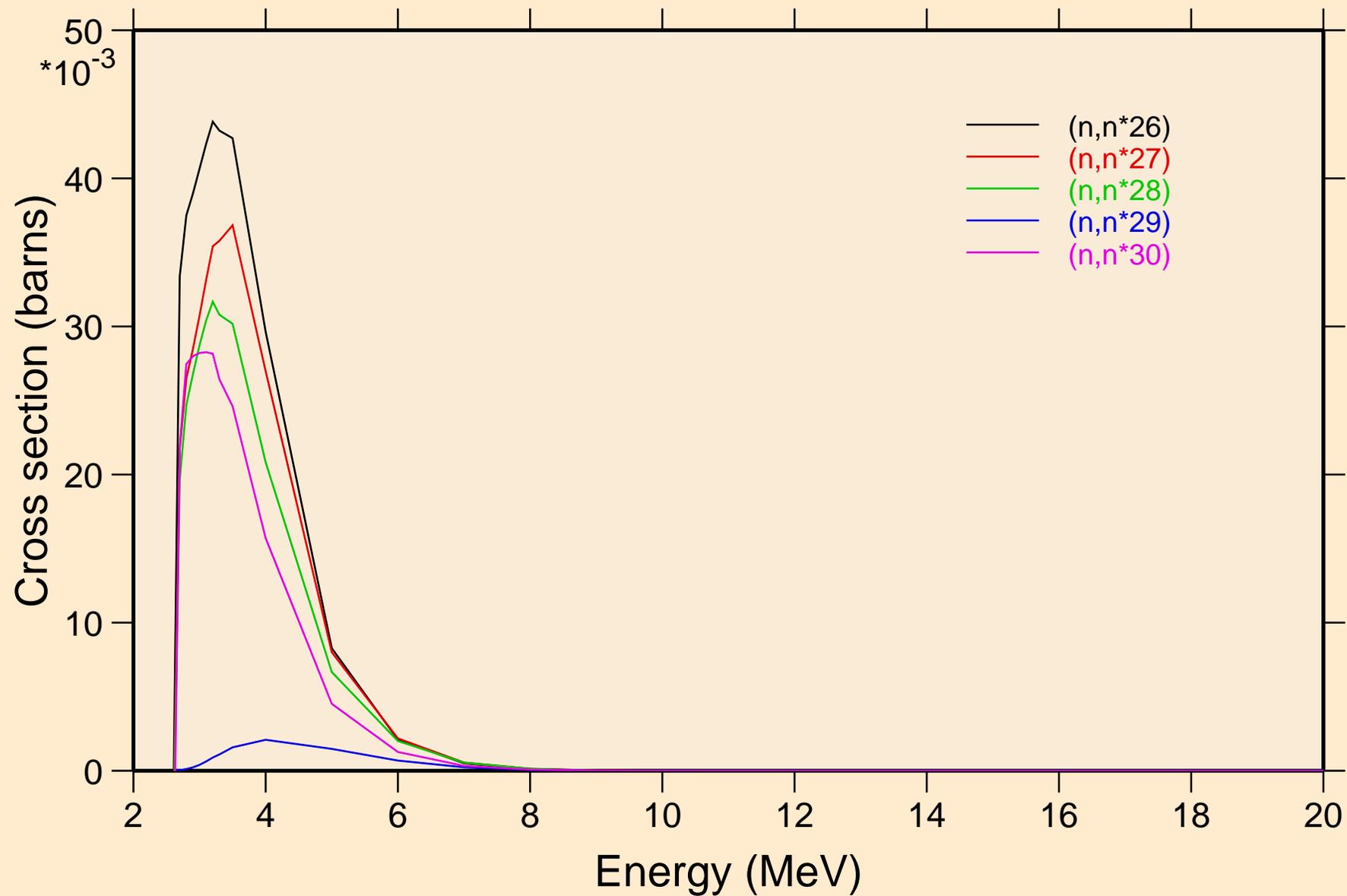
# ADVANCE CALCULATIONS

## Inelastic levels



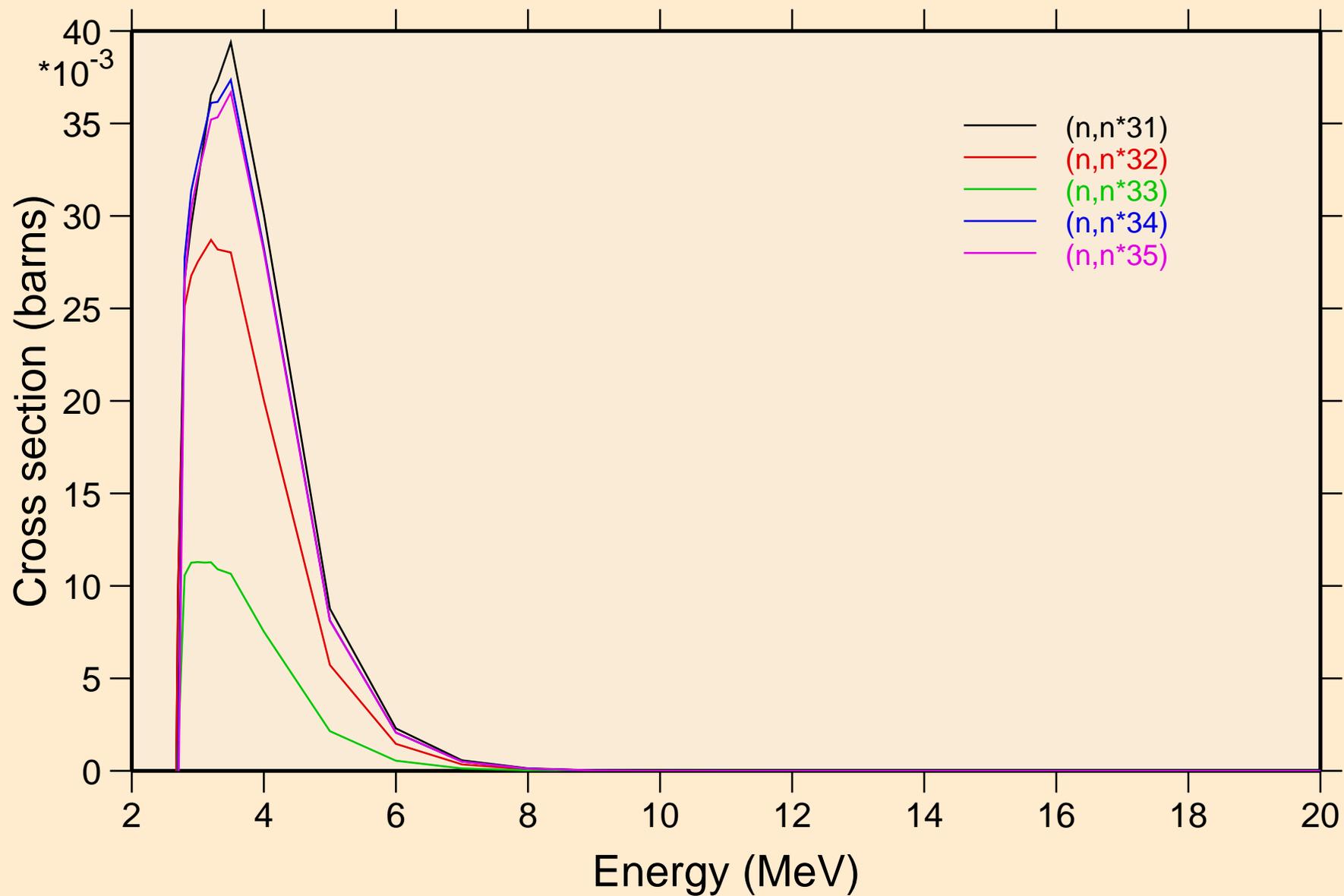
# ADVANCE CALCULATIONS

## Inelastic levels



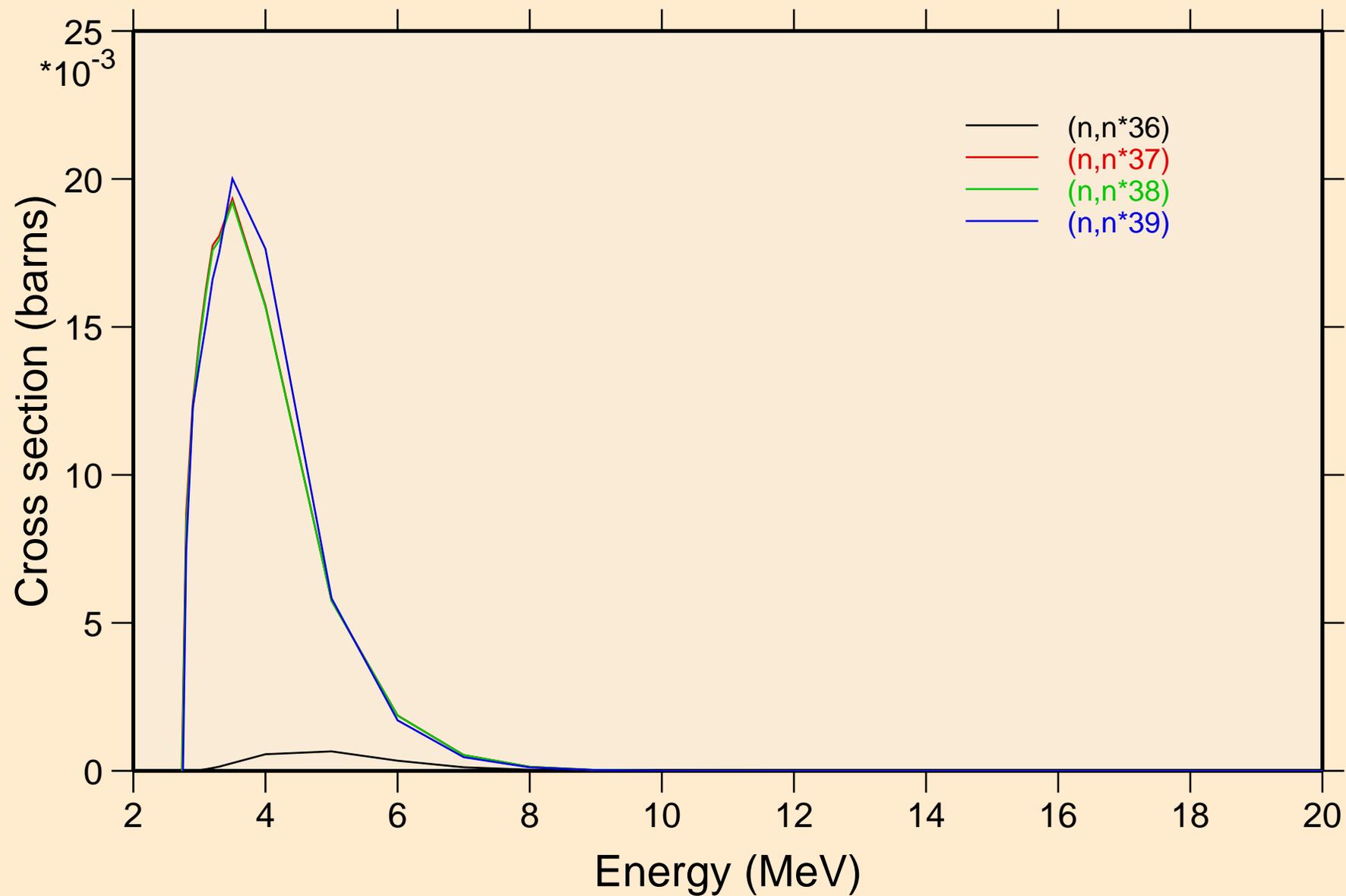
# ADVANCE CALCULATIONS

## Inelastic levels



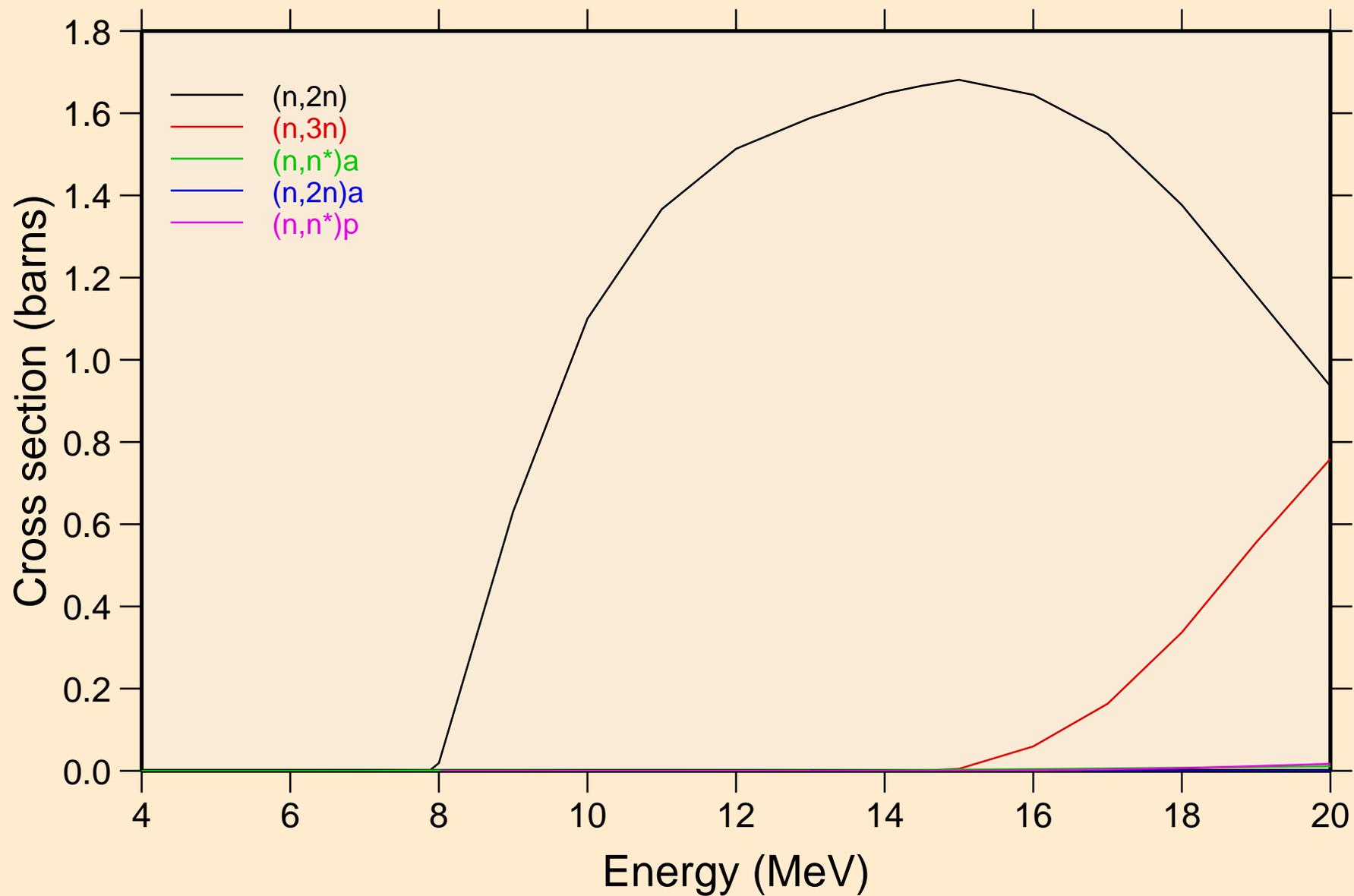
# ADVANCE CALCULATIONS

## Inelastic levels



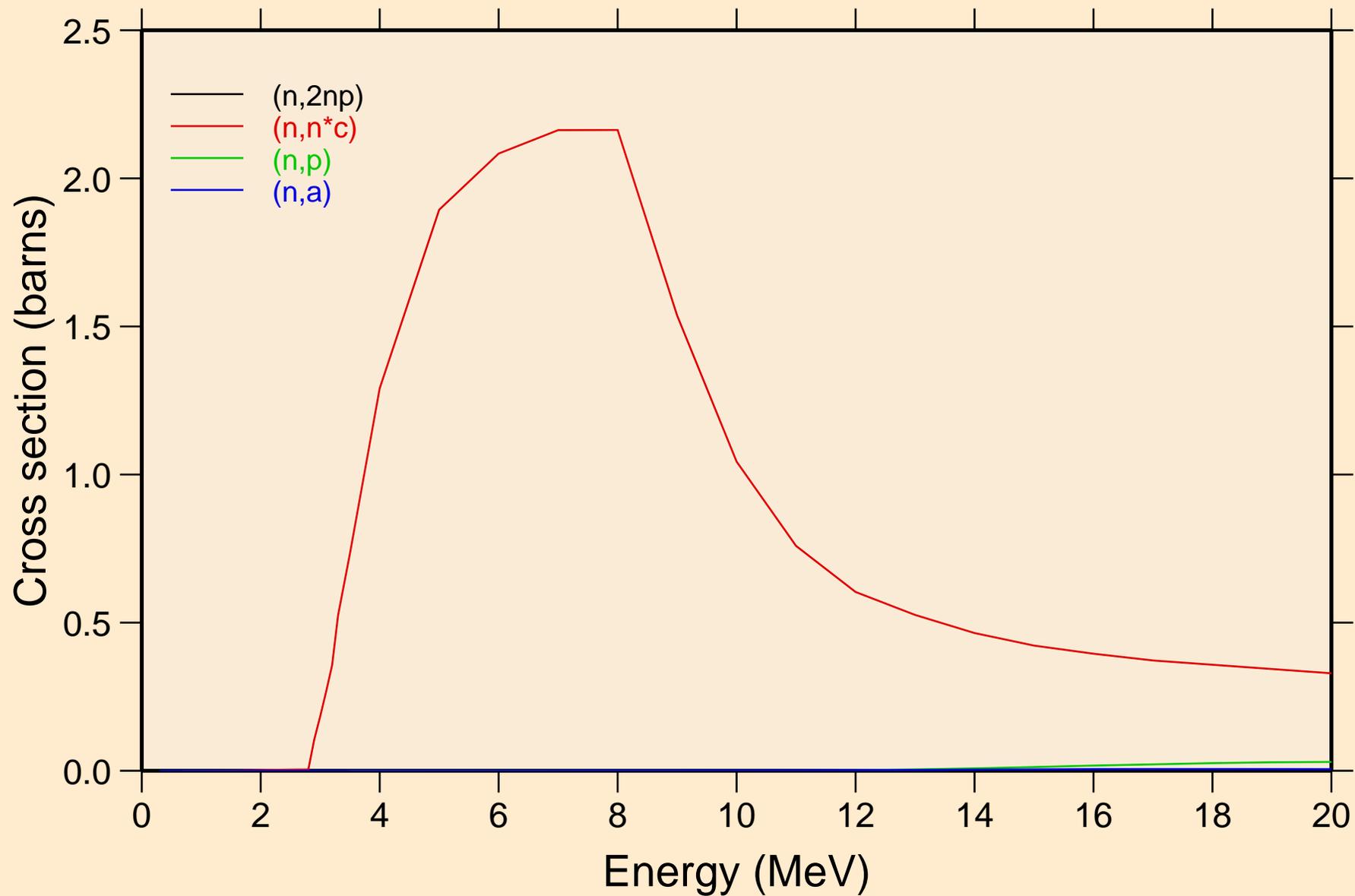
# ADVANCE CALCULATIONS

## Threshold reactions



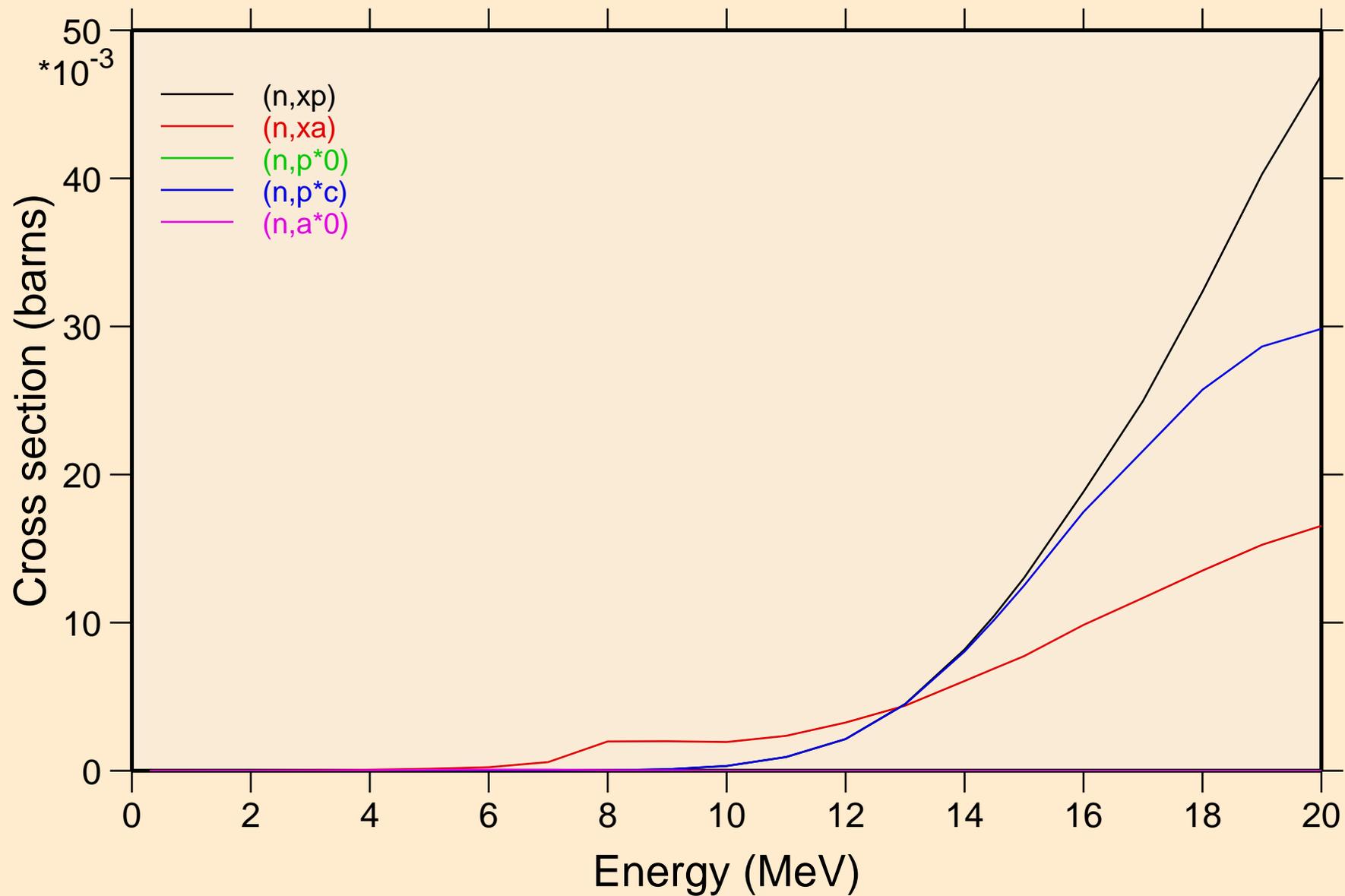
# ADVANCE CALCULATIONS

## Threshold reactions



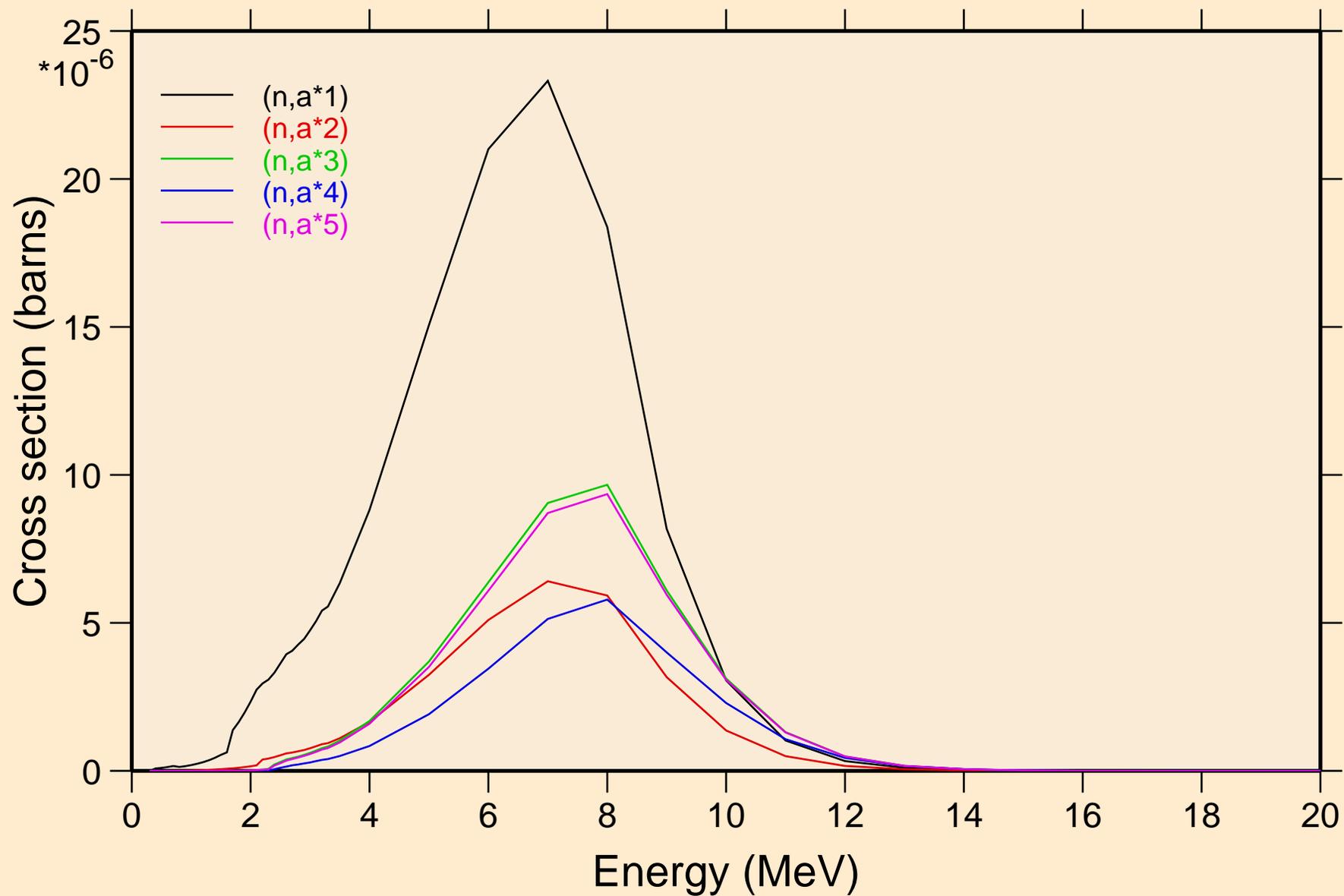
# ADVANCE CALCULATIONS

## Threshold reactions



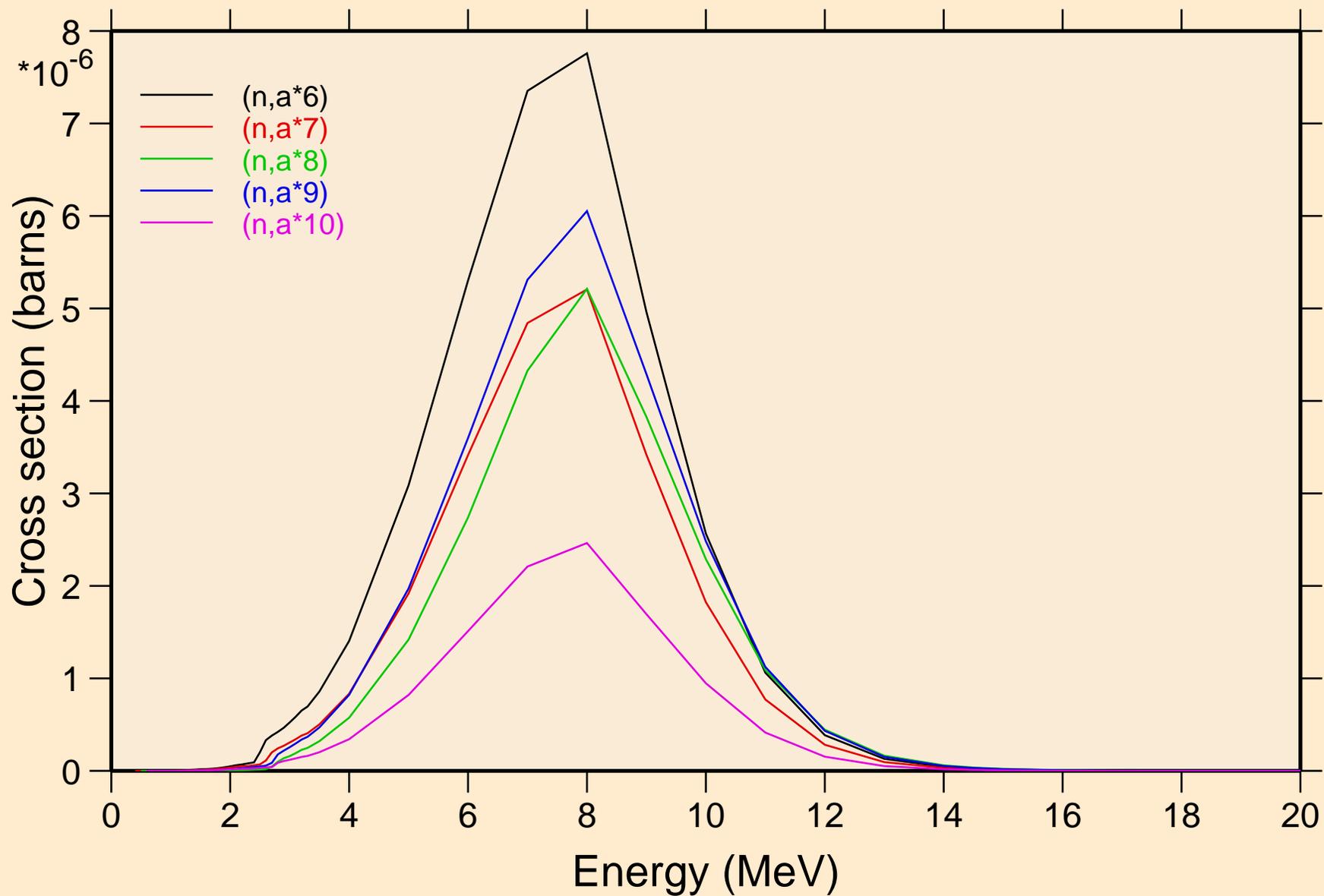
# ADVANCE CALCULATIONS

## Threshold reactions



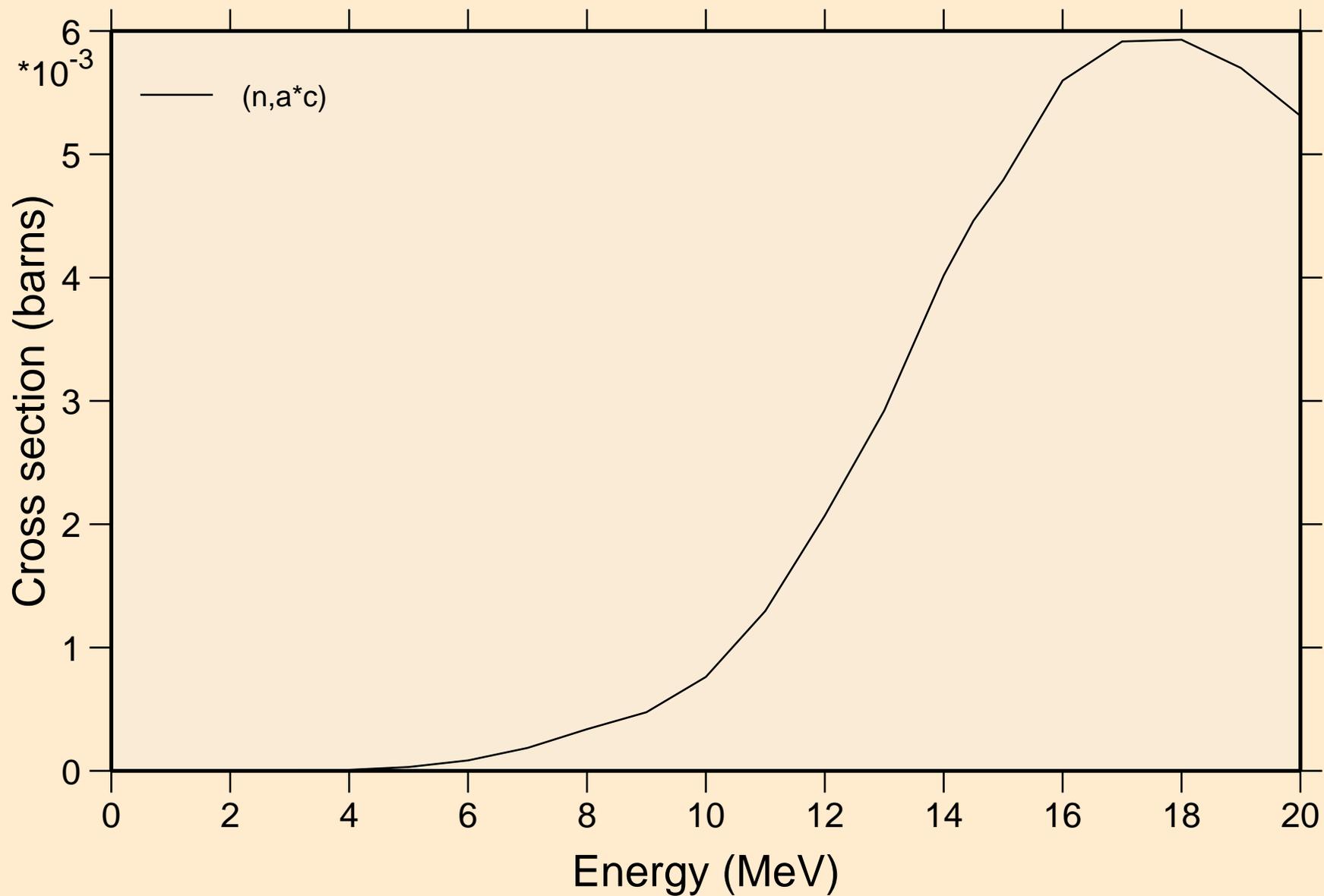
# ADVANCE CALCULATIONS

## Threshold reactions



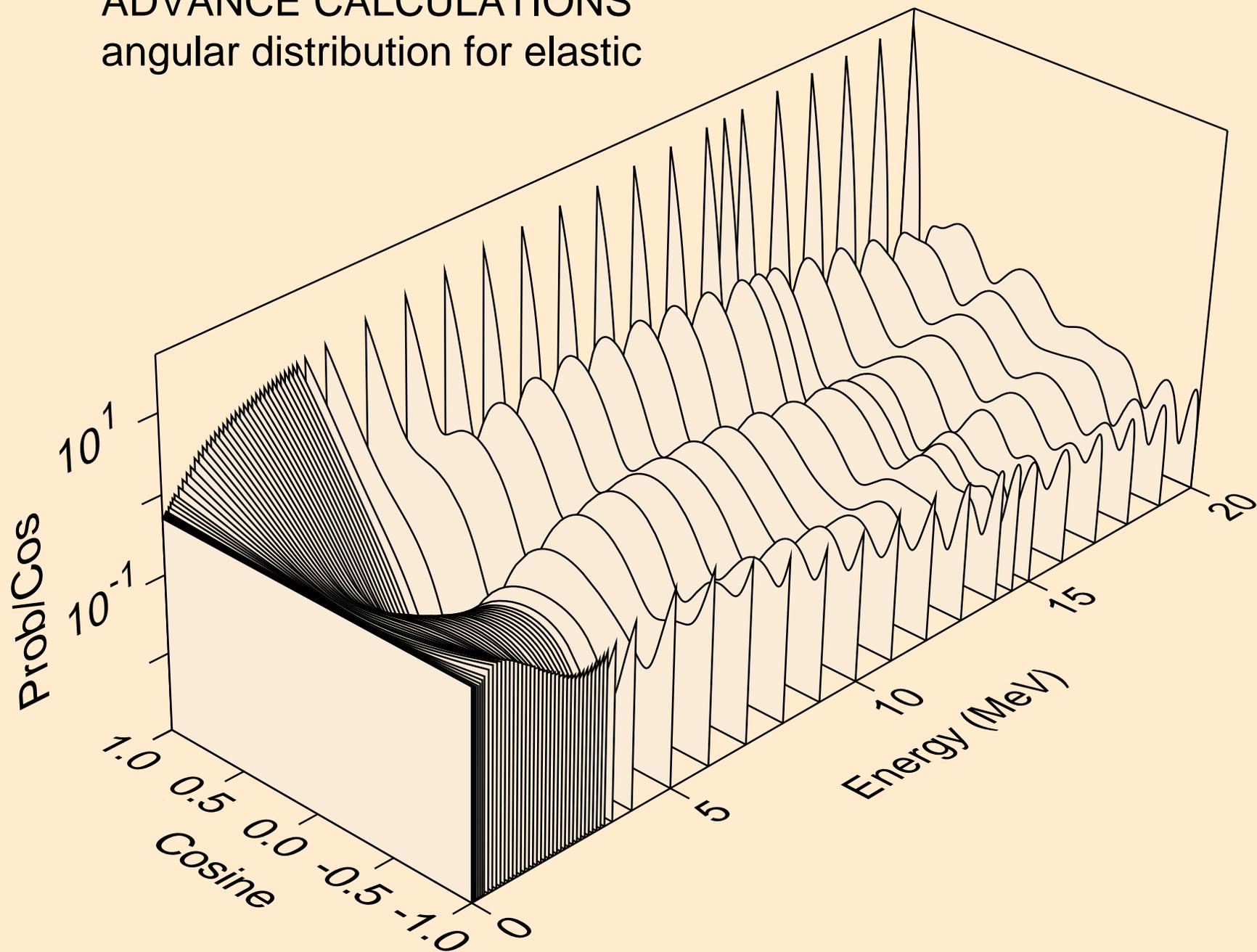
# ADVANCE CALCULATIONS

## Threshold reactions

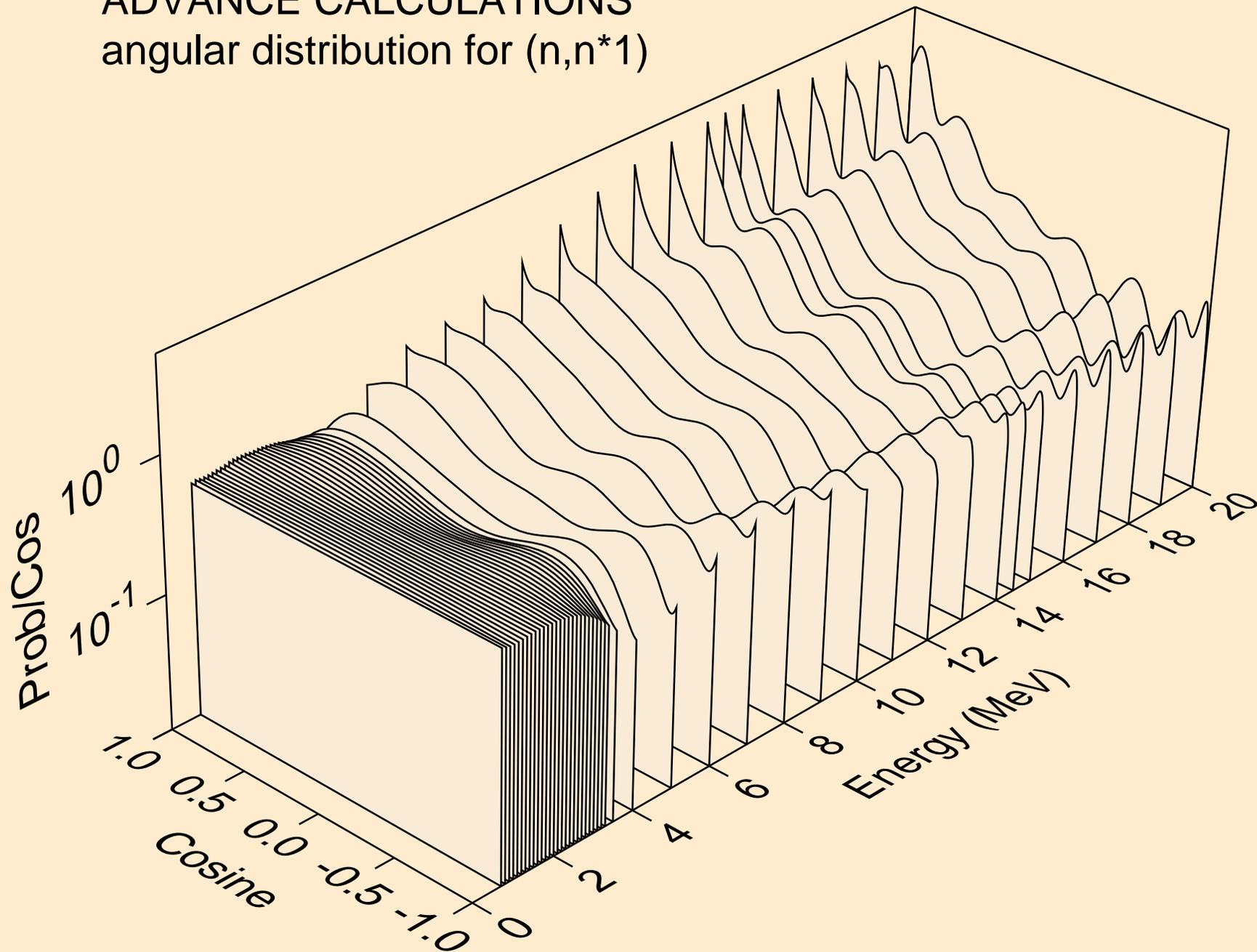


# ADVANCE CALCULATIONS

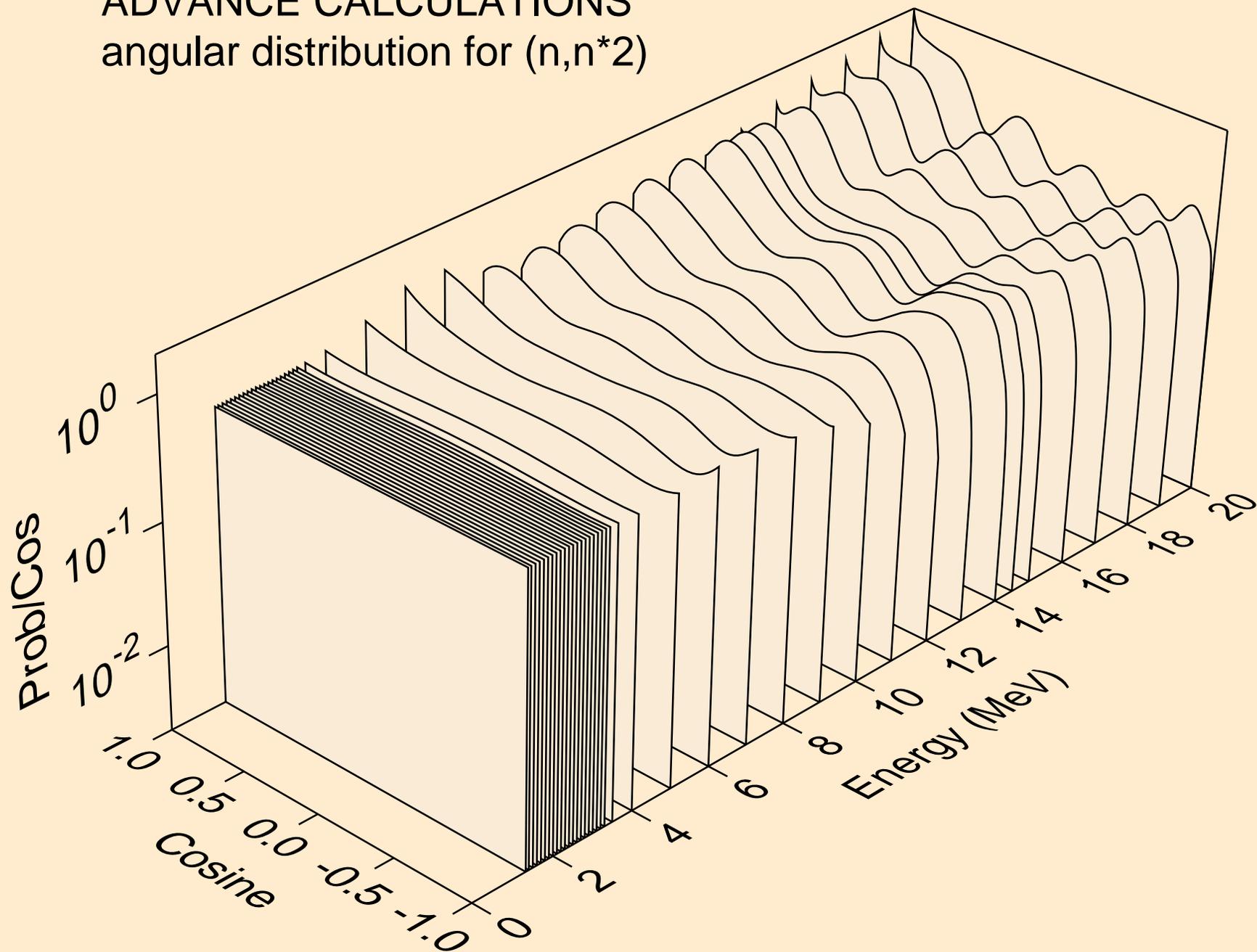
## angular distribution for elastic



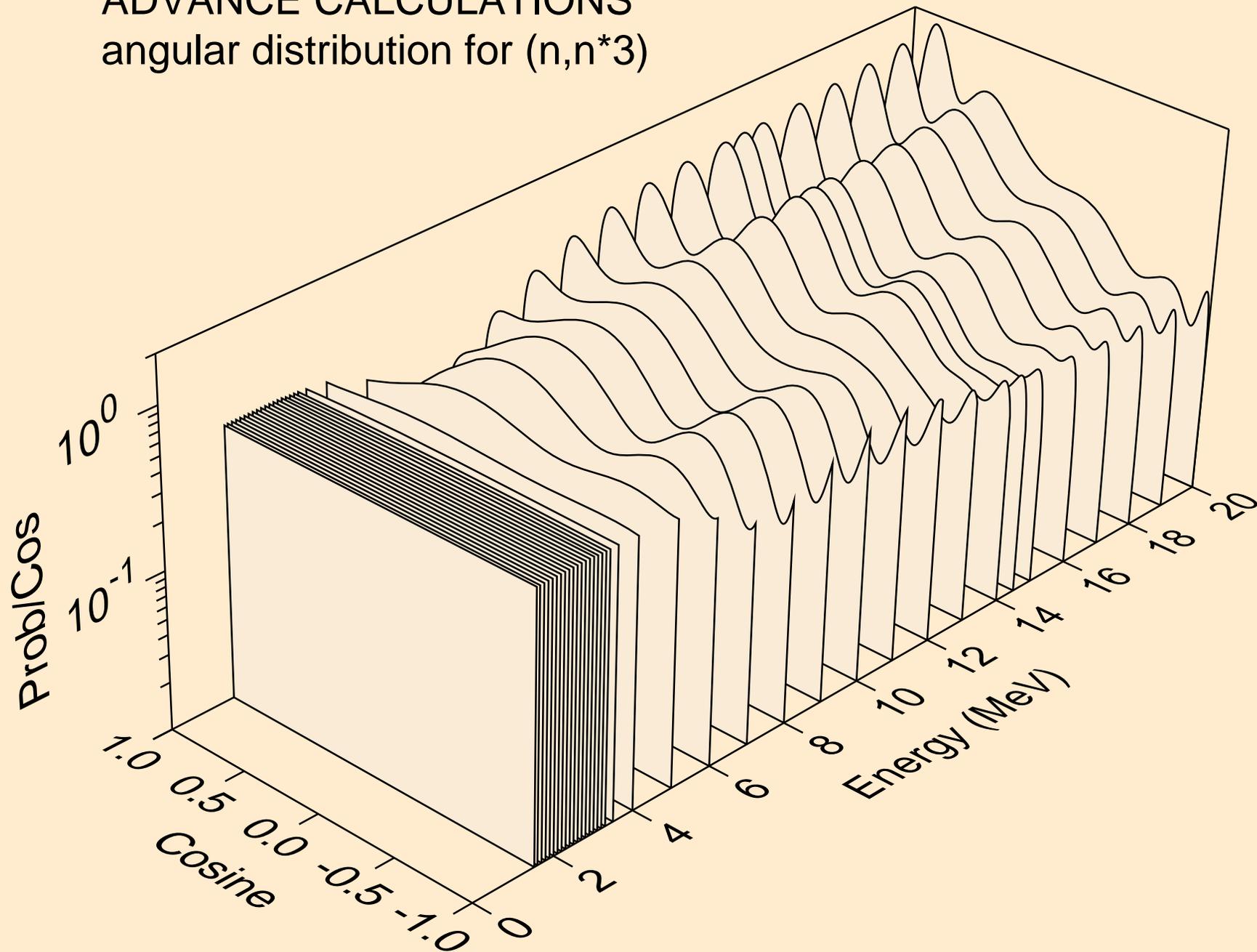
ADVANCE CALCULATIONS  
angular distribution for (n,n\*1)



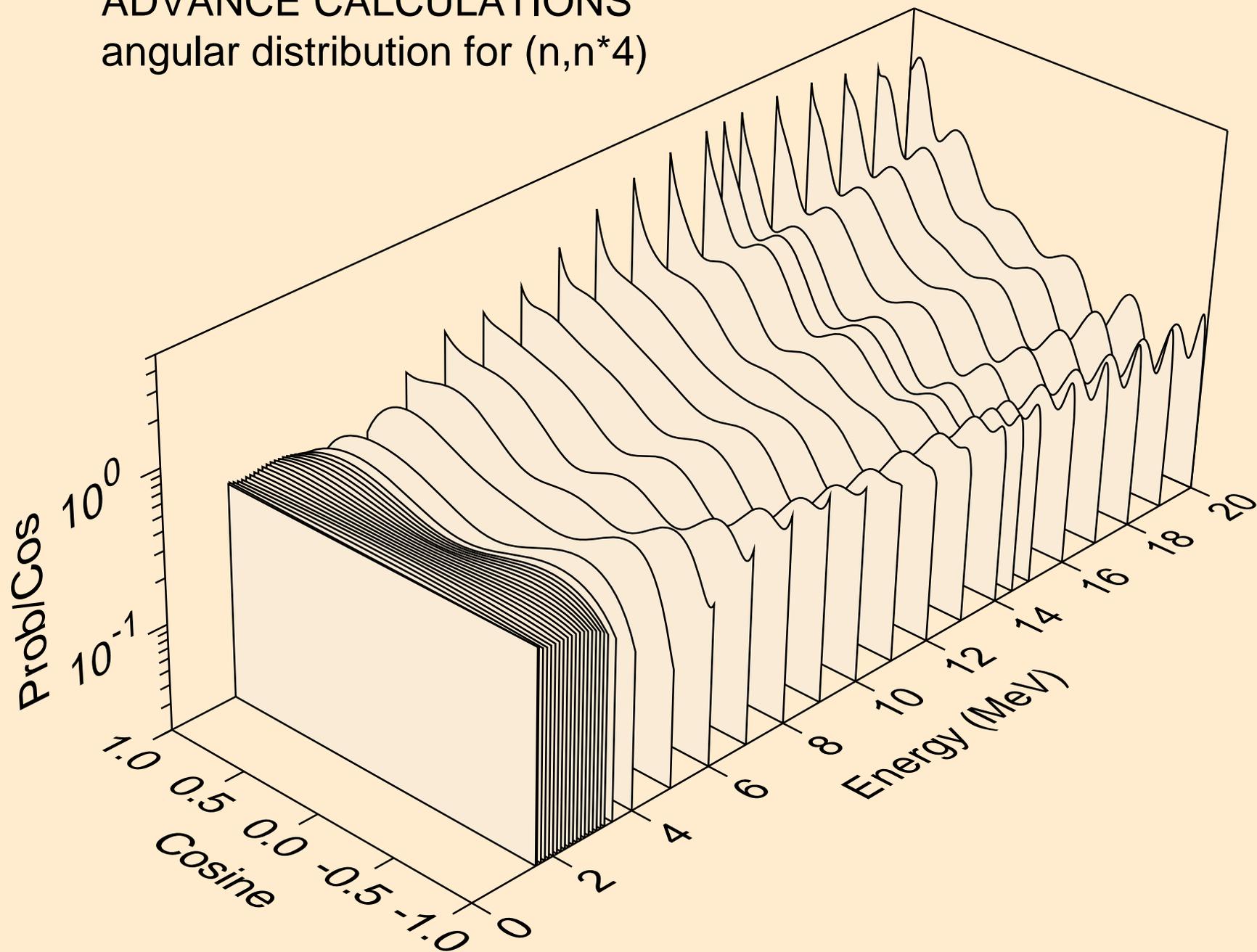
ADVANCE CALCULATIONS  
angular distribution for (n,n\*2)



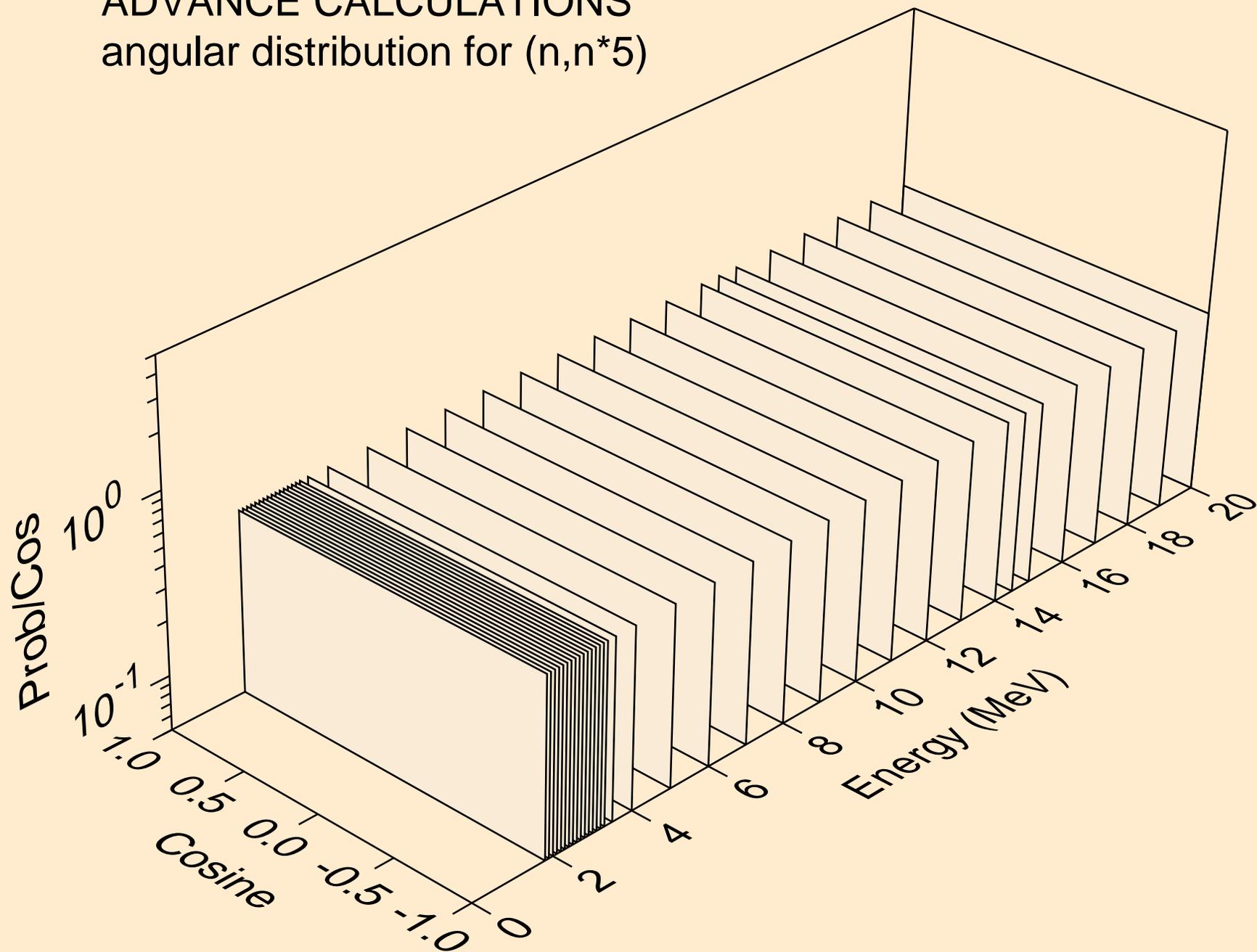
ADVANCE CALCULATIONS  
angular distribution for (n,n\*3)



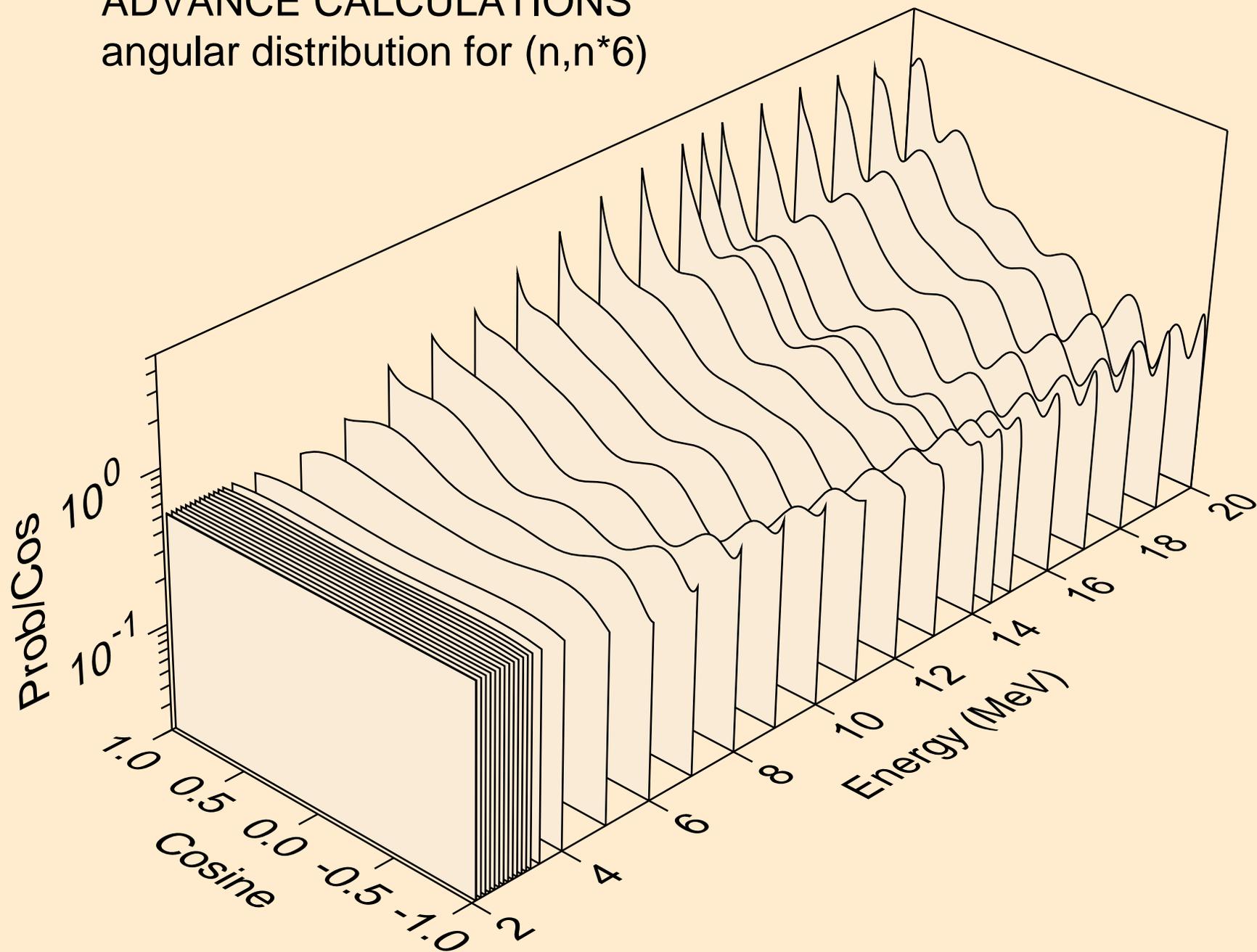
ADVANCE CALCULATIONS  
angular distribution for (n,n\*4)



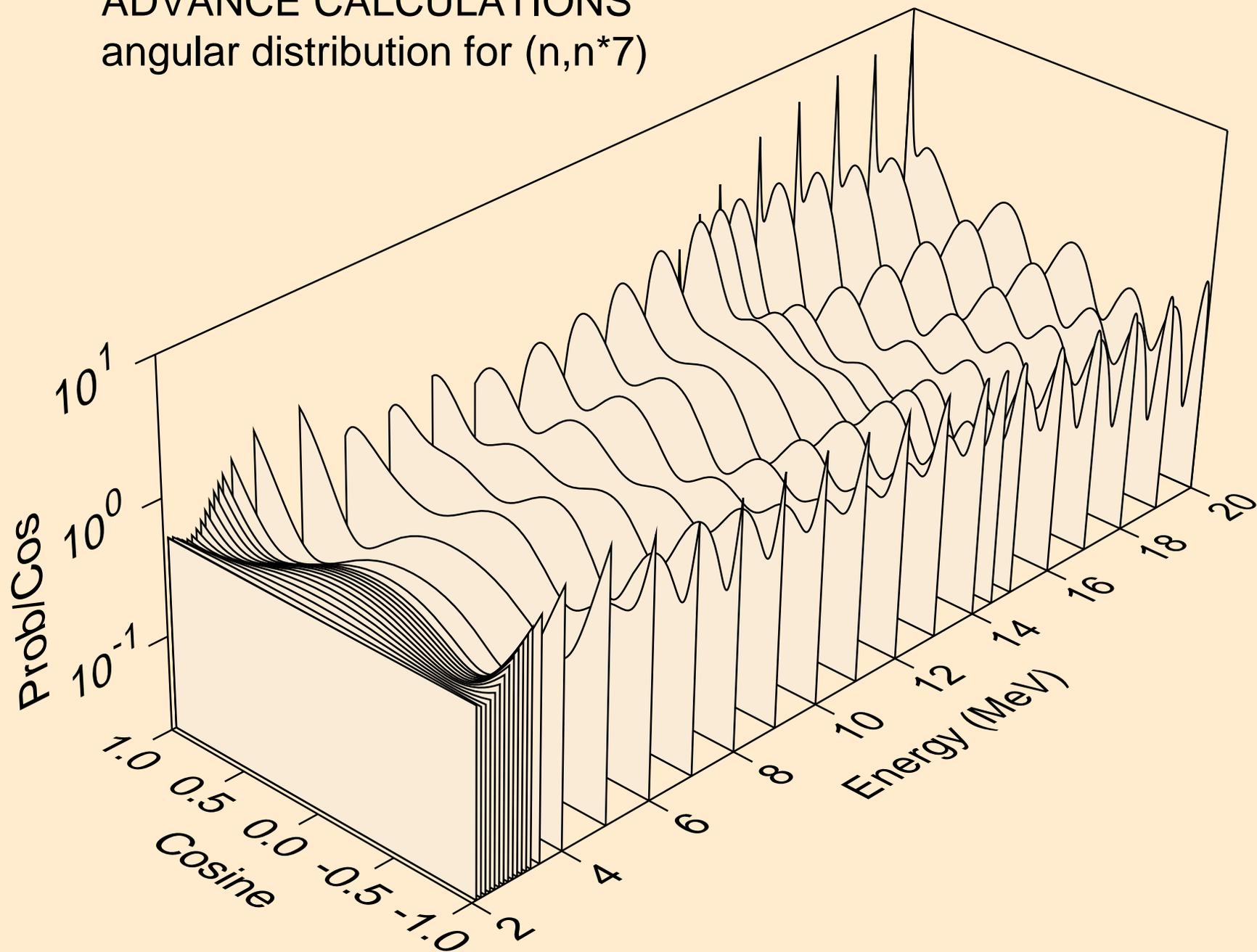
ADVANCE CALCULATIONS  
angular distribution for (n,n\*5)



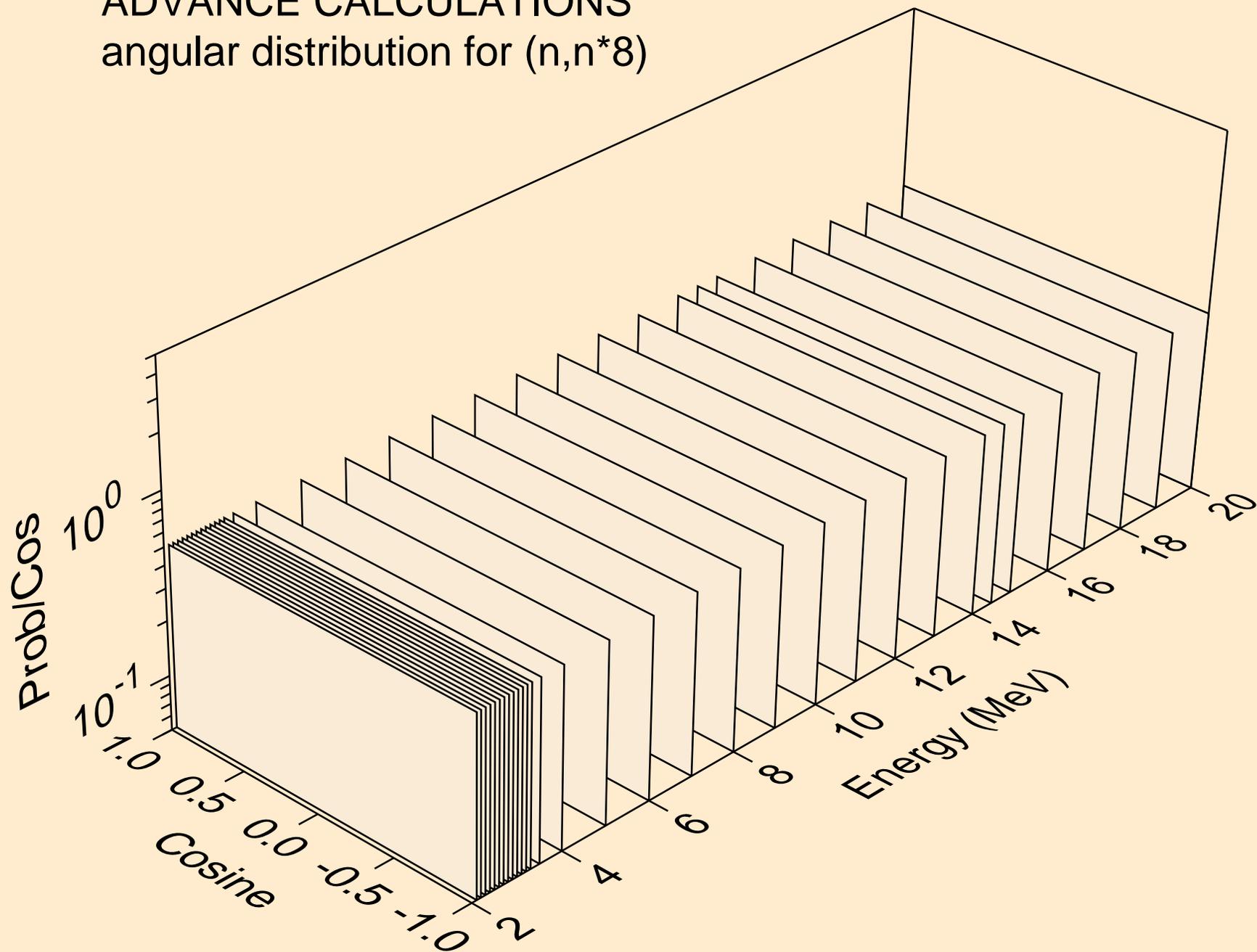
ADVANCE CALCULATIONS  
angular distribution for (n,n\*6)



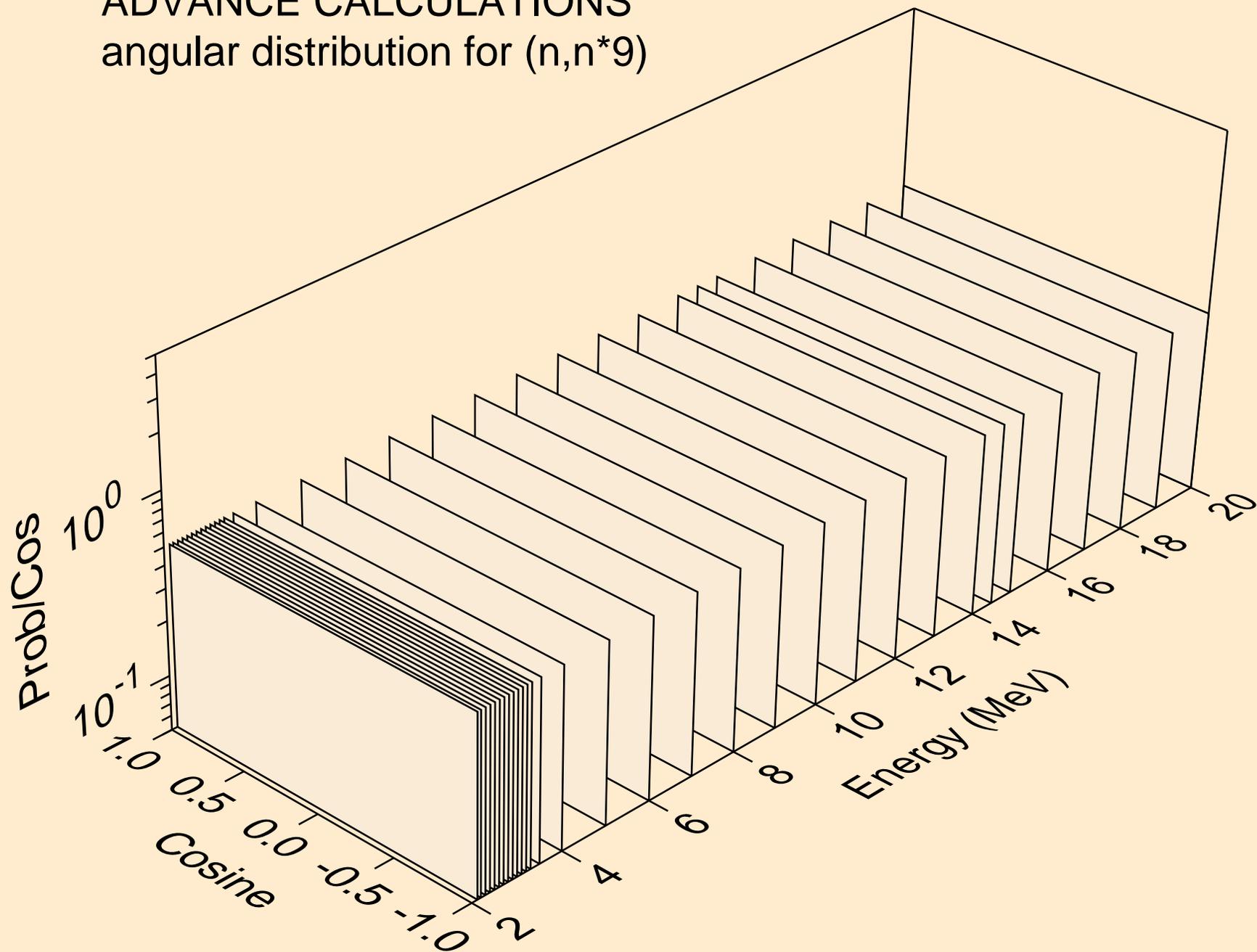
ADVANCE CALCULATIONS  
angular distribution for (n,n\*7)



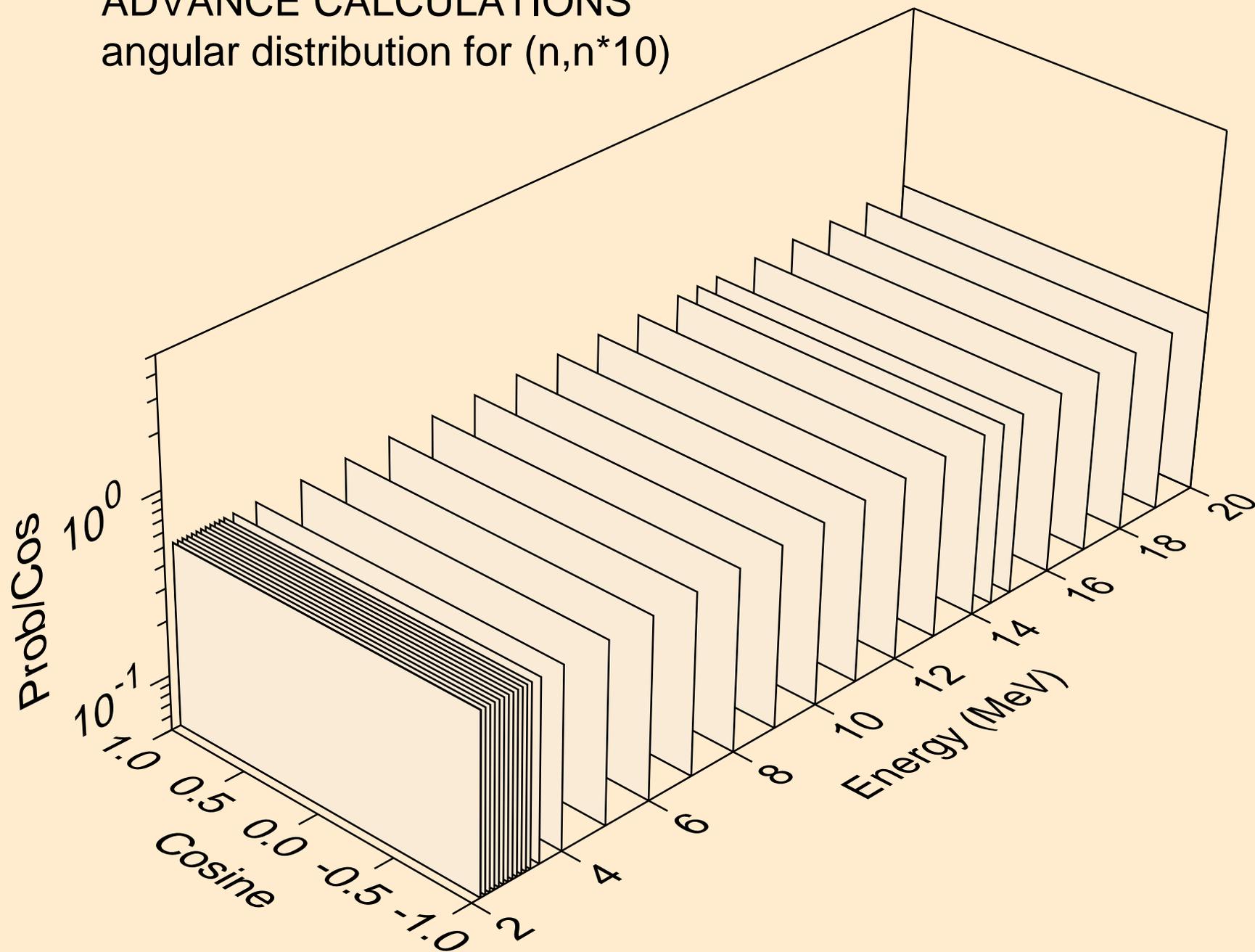
ADVANCE CALCULATIONS  
angular distribution for (n,n\*8)



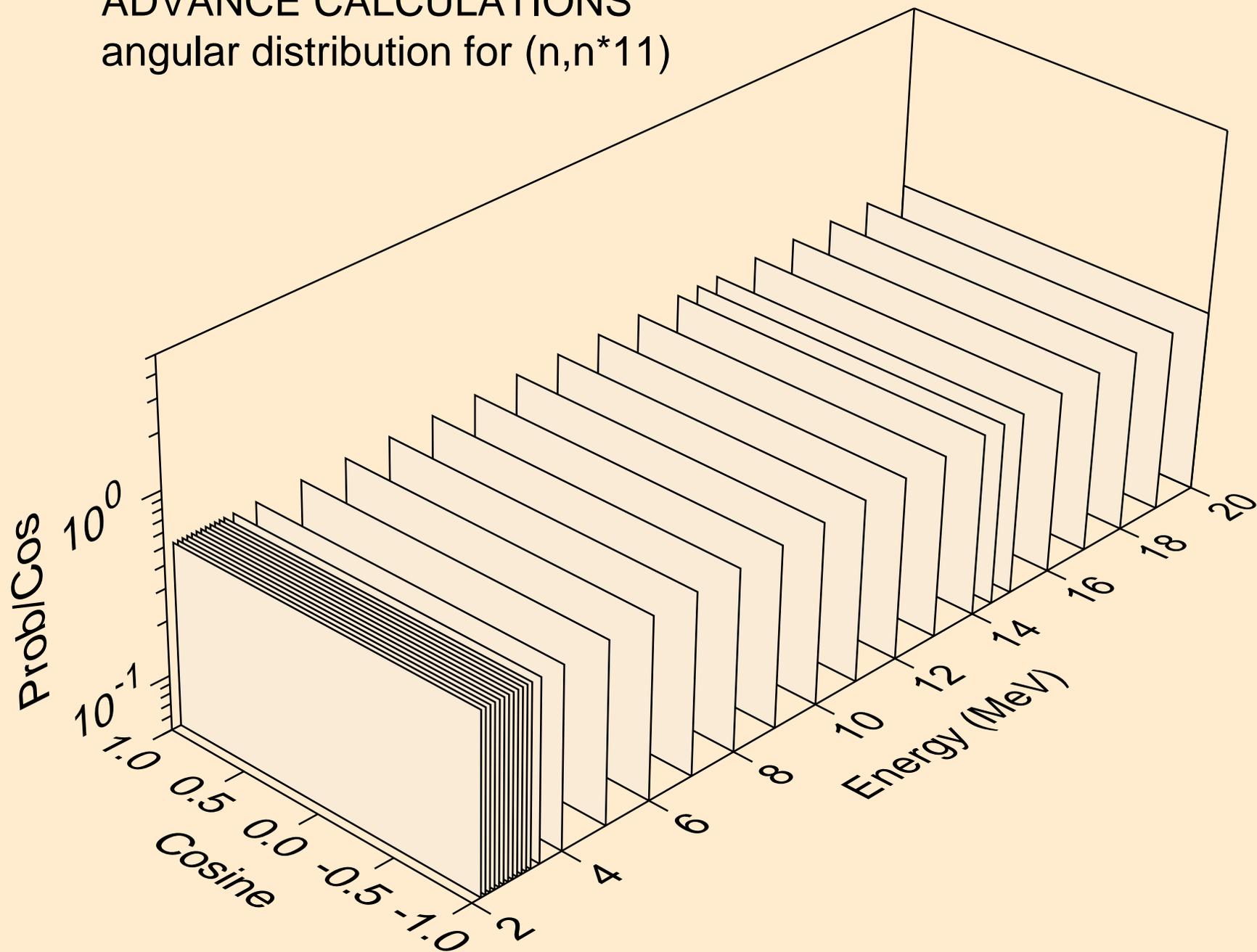
ADVANCE CALCULATIONS  
angular distribution for (n,n\*9)



ADVANCE CALCULATIONS  
angular distribution for (n,n\*10)

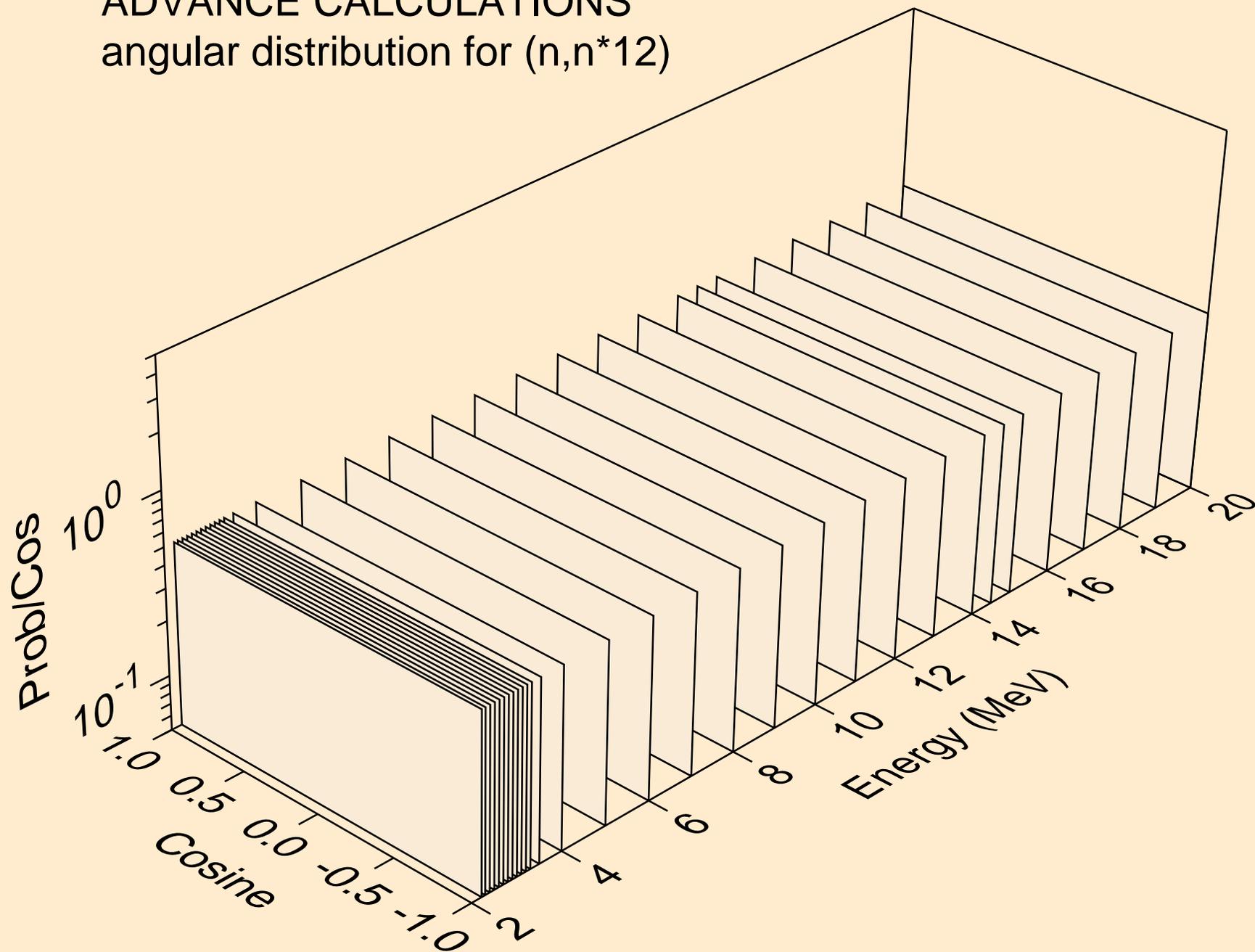


ADVANCE CALCULATIONS  
angular distribution for (n,n\*11)



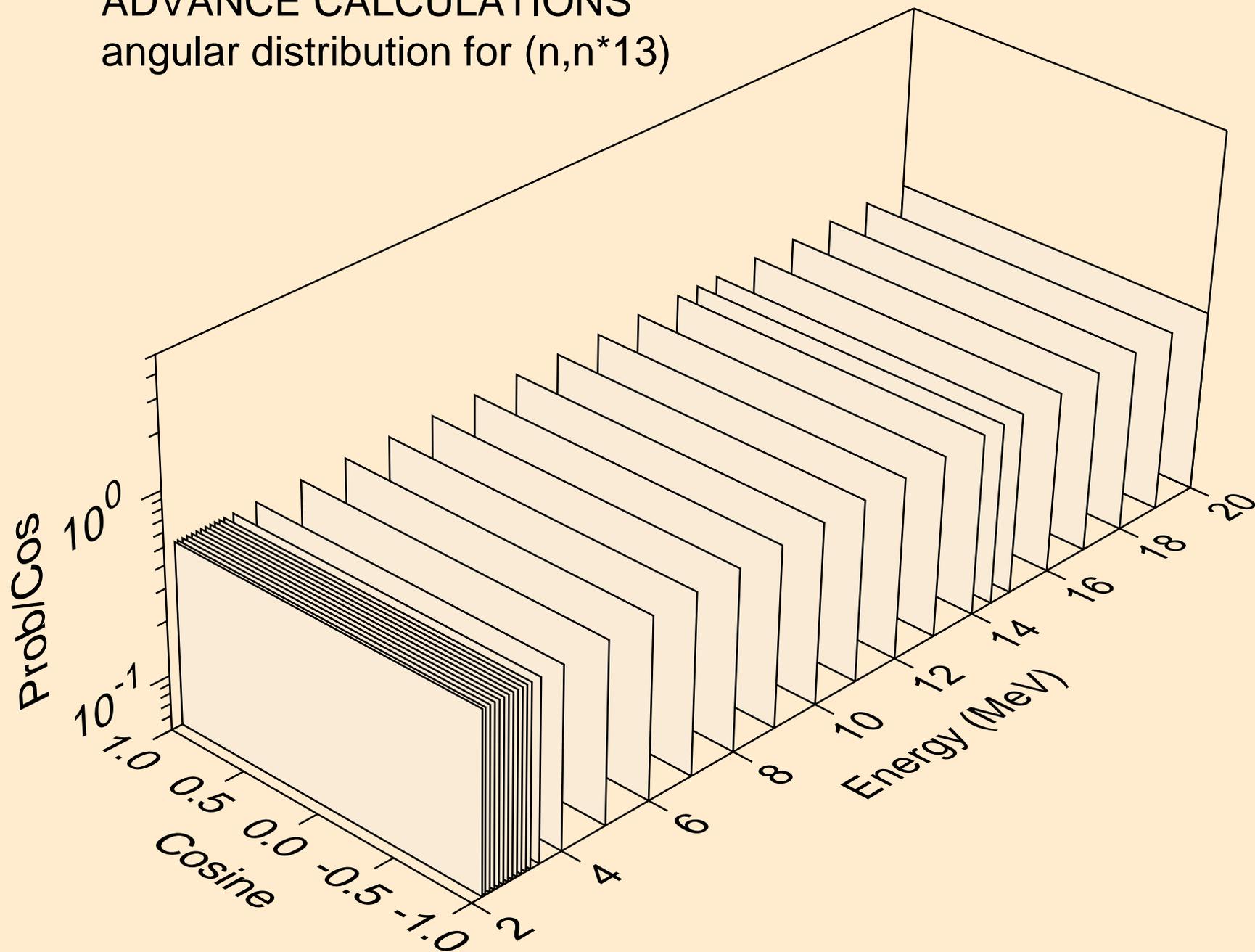
# ADVANCE CALCULATIONS

angular distribution for (n,n\*12)

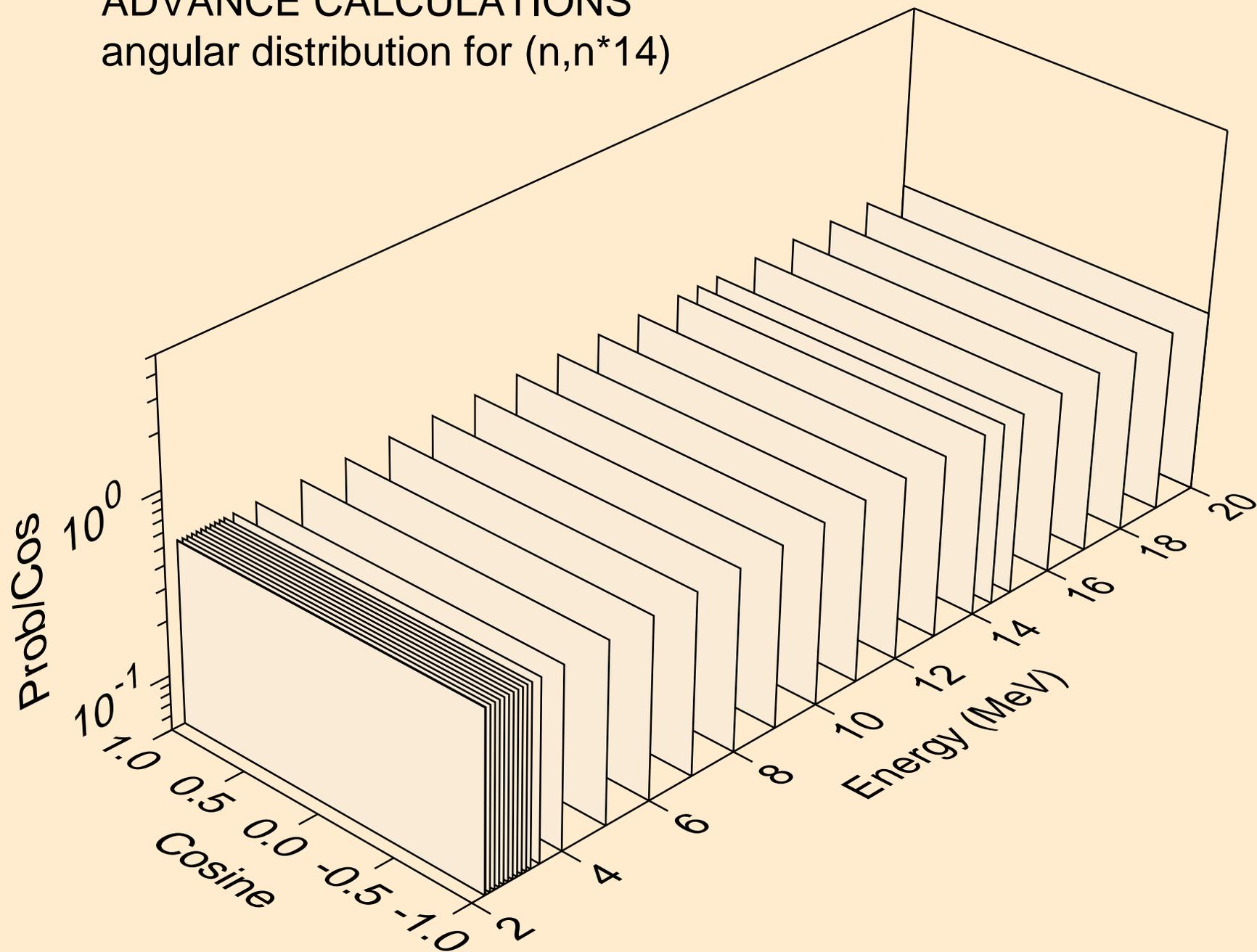


# ADVANCE CALCULATIONS

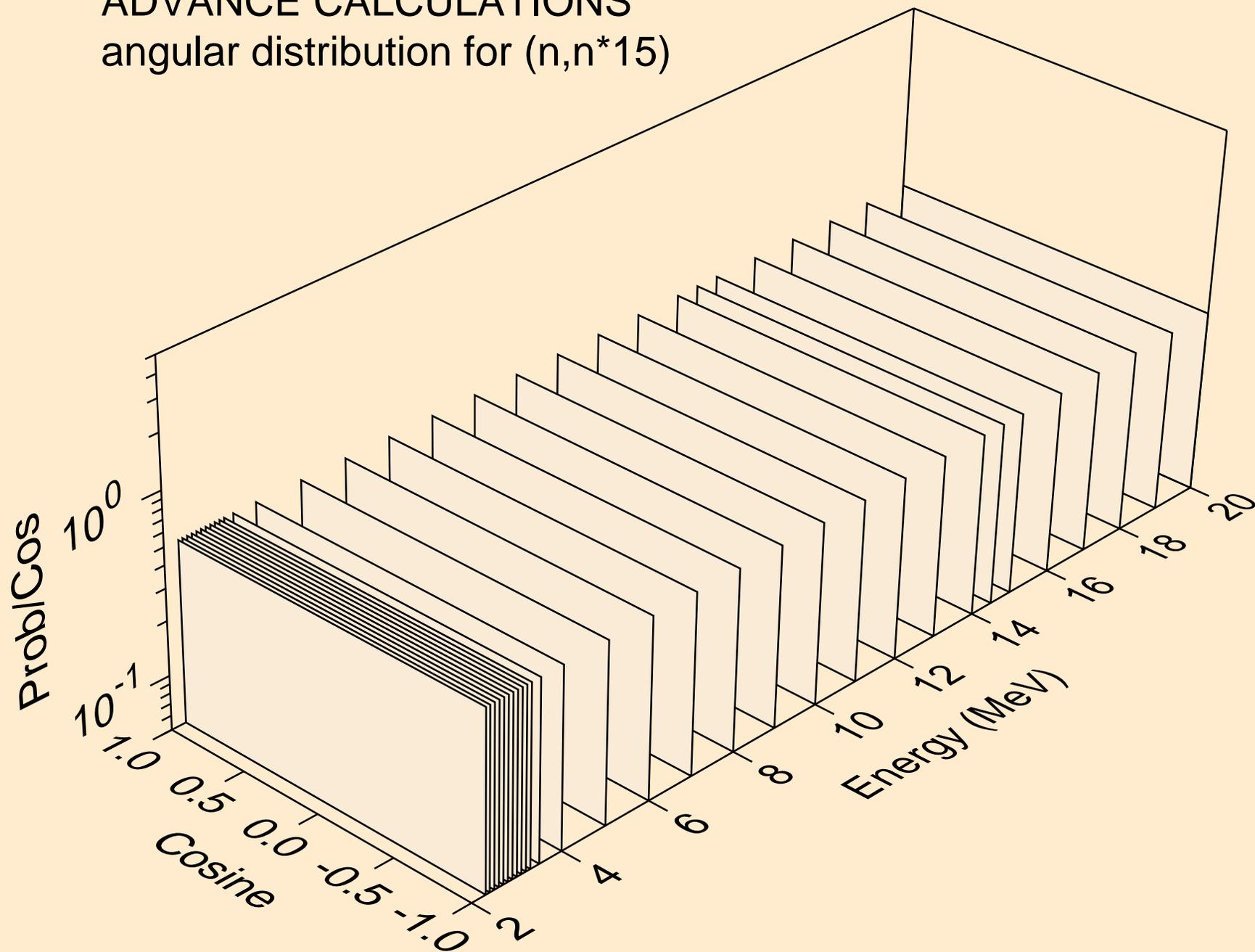
angular distribution for (n,n\*13)



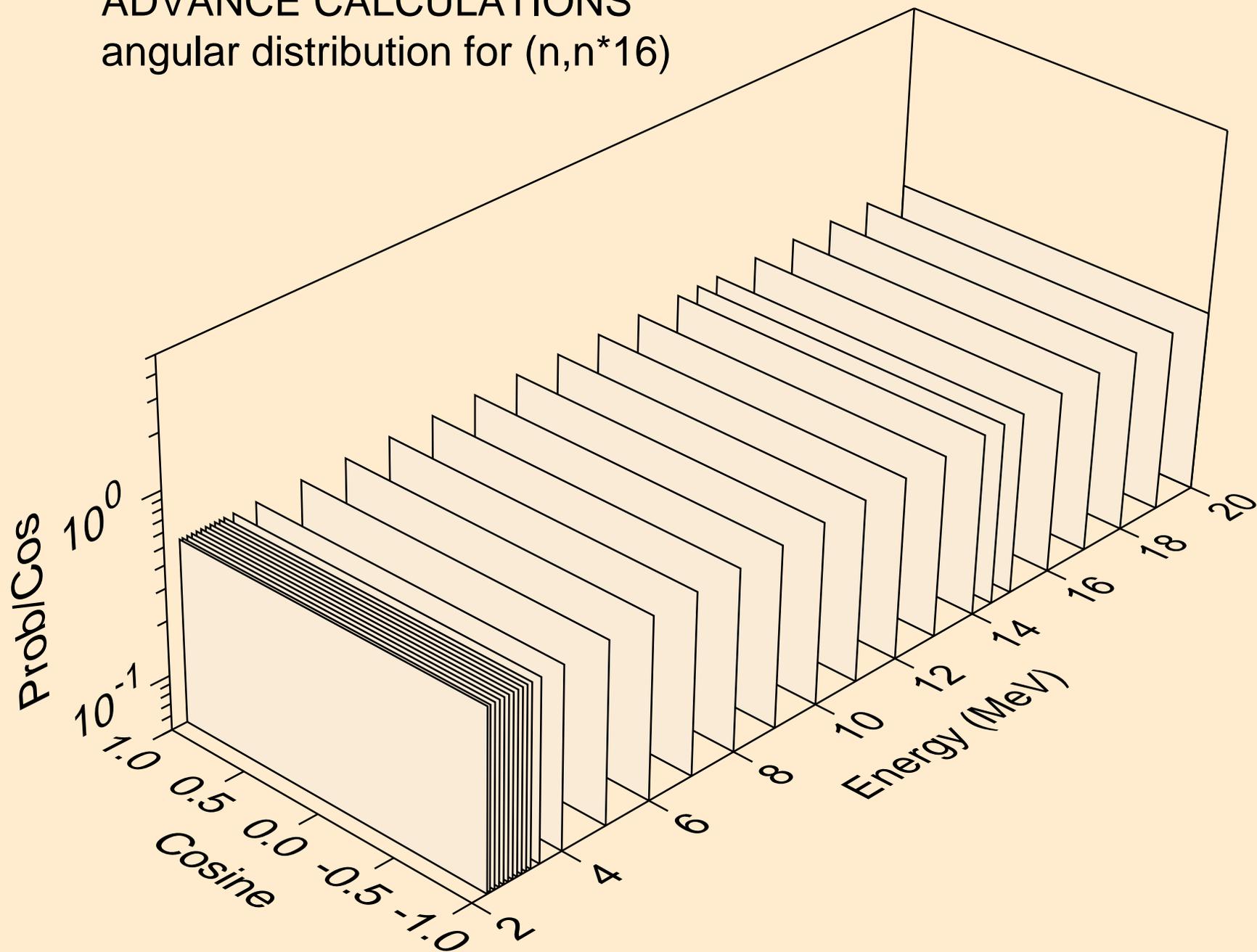
ADVANCE CALCULATIONS  
angular distribution for (n,n\*14)



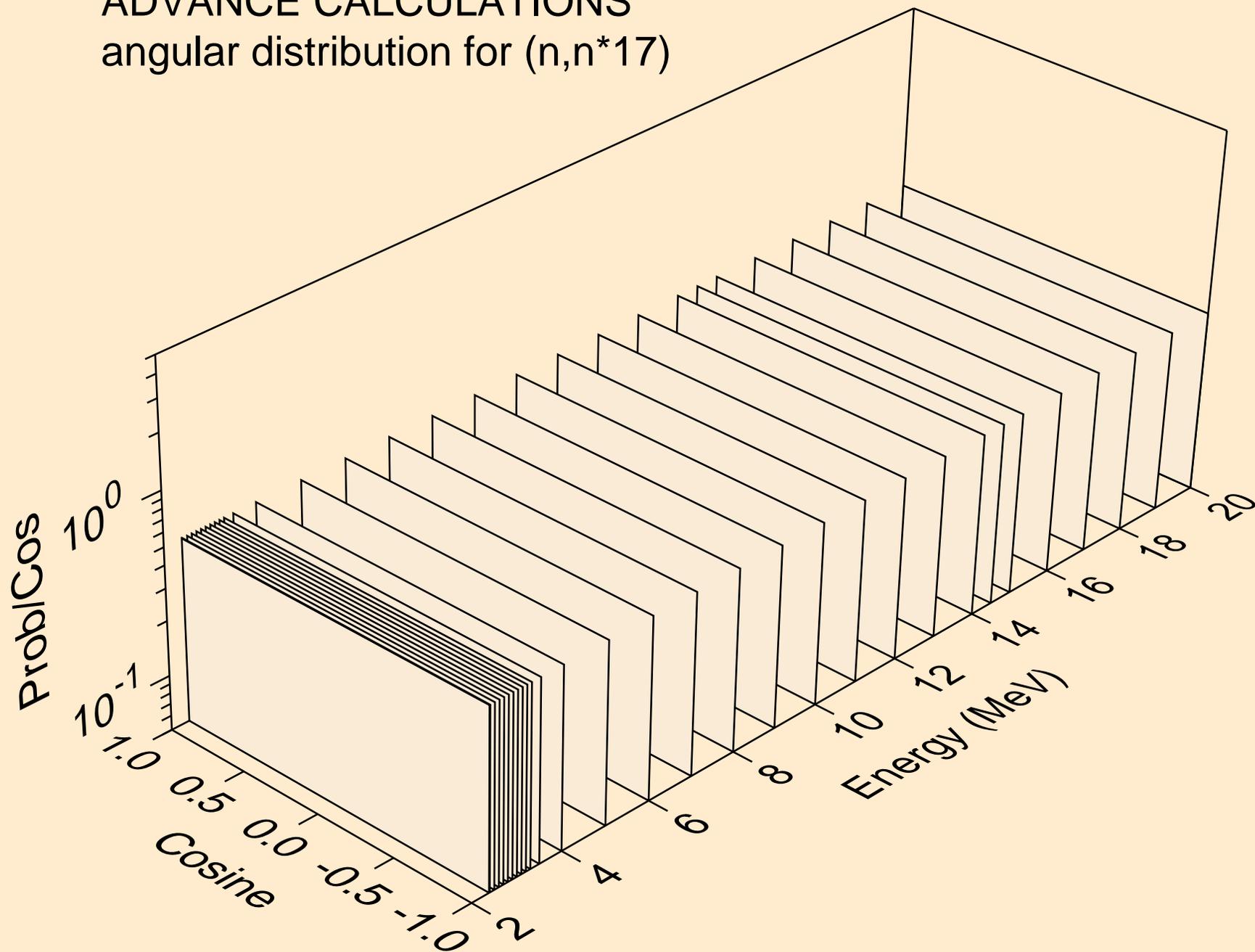
ADVANCE CALCULATIONS  
angular distribution for (n,n\*15)



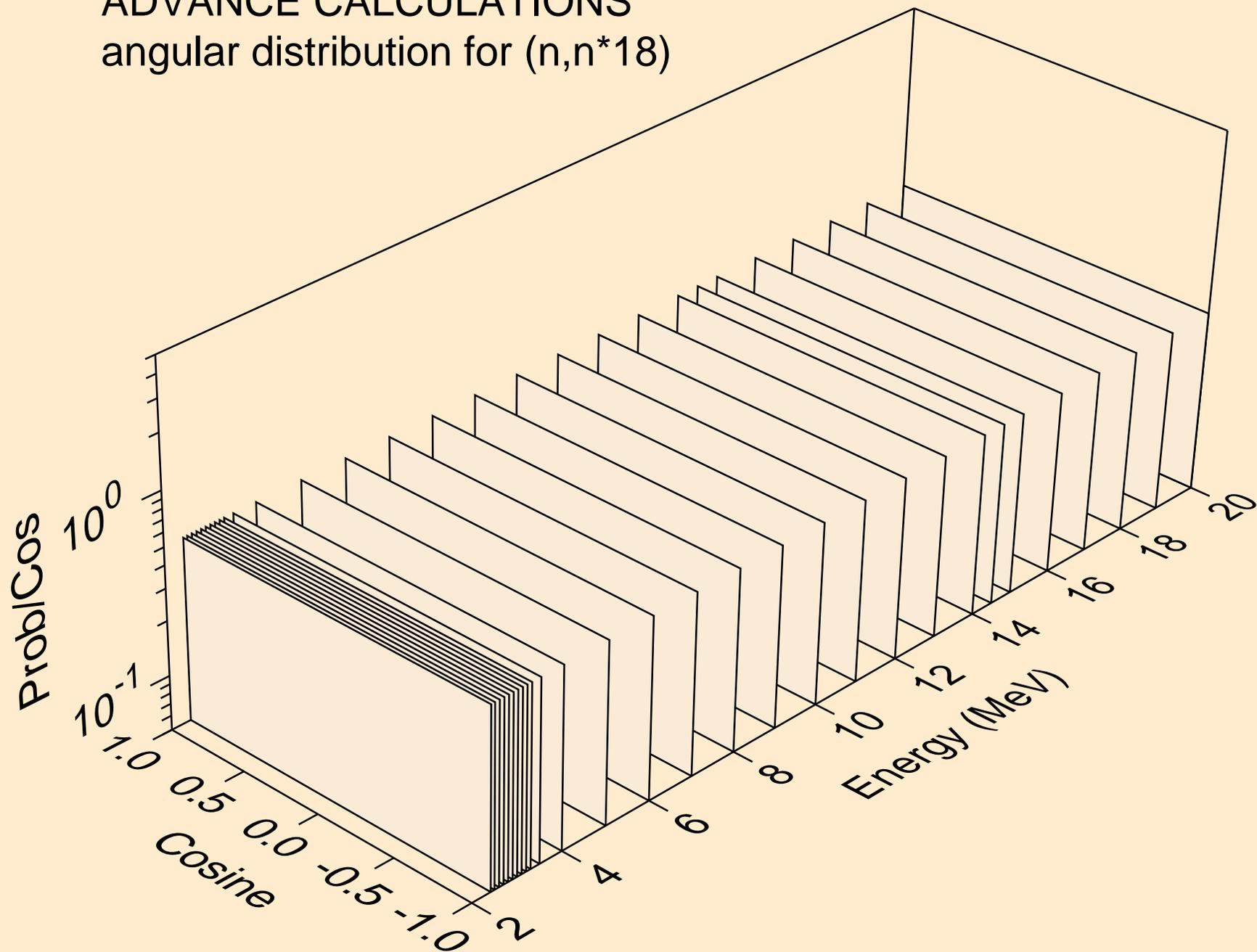
ADVANCE CALCULATIONS  
angular distribution for (n,n\*16)



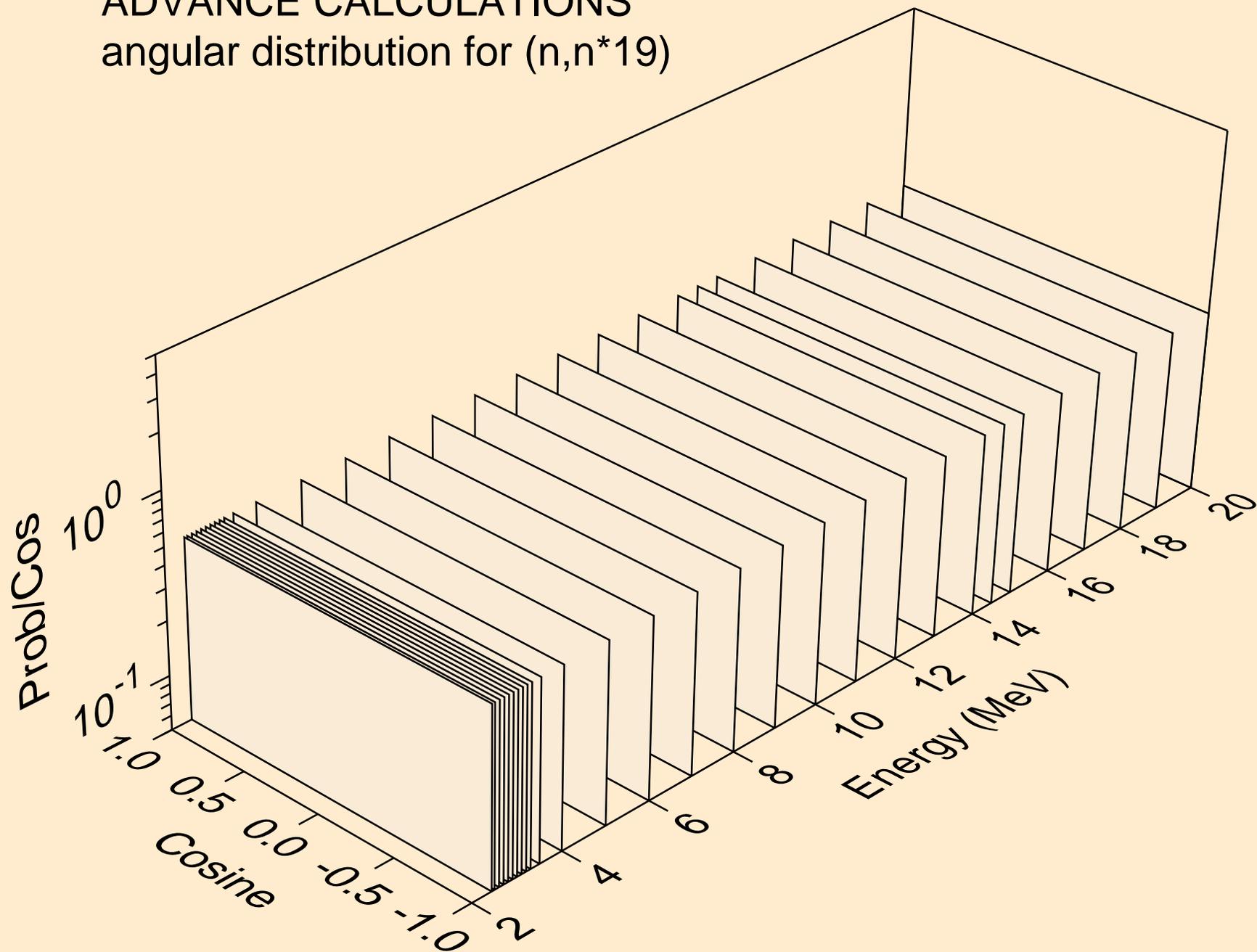
ADVANCE CALCULATIONS  
angular distribution for (n,n\*17)



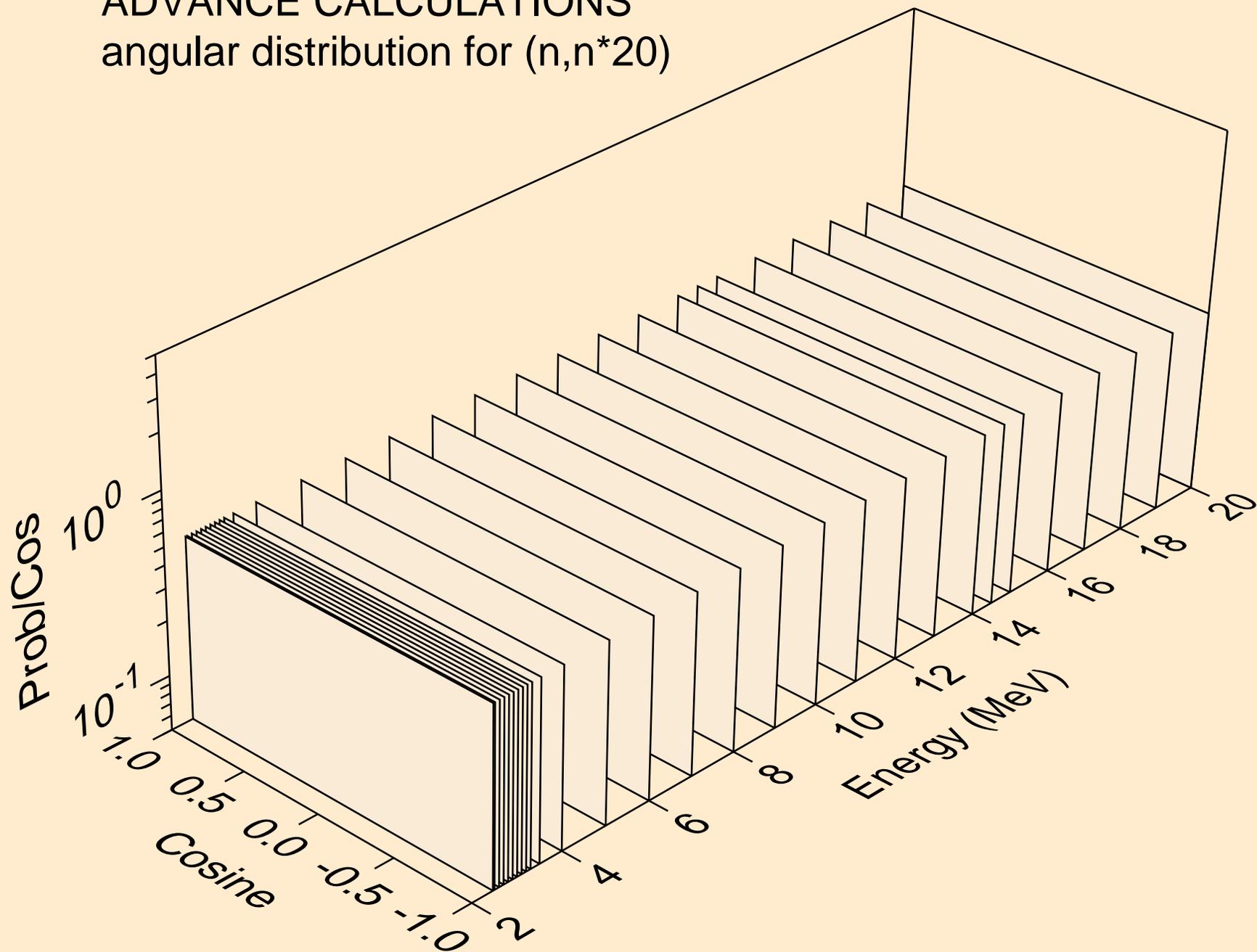
ADVANCE CALCULATIONS  
angular distribution for (n,n\*18)



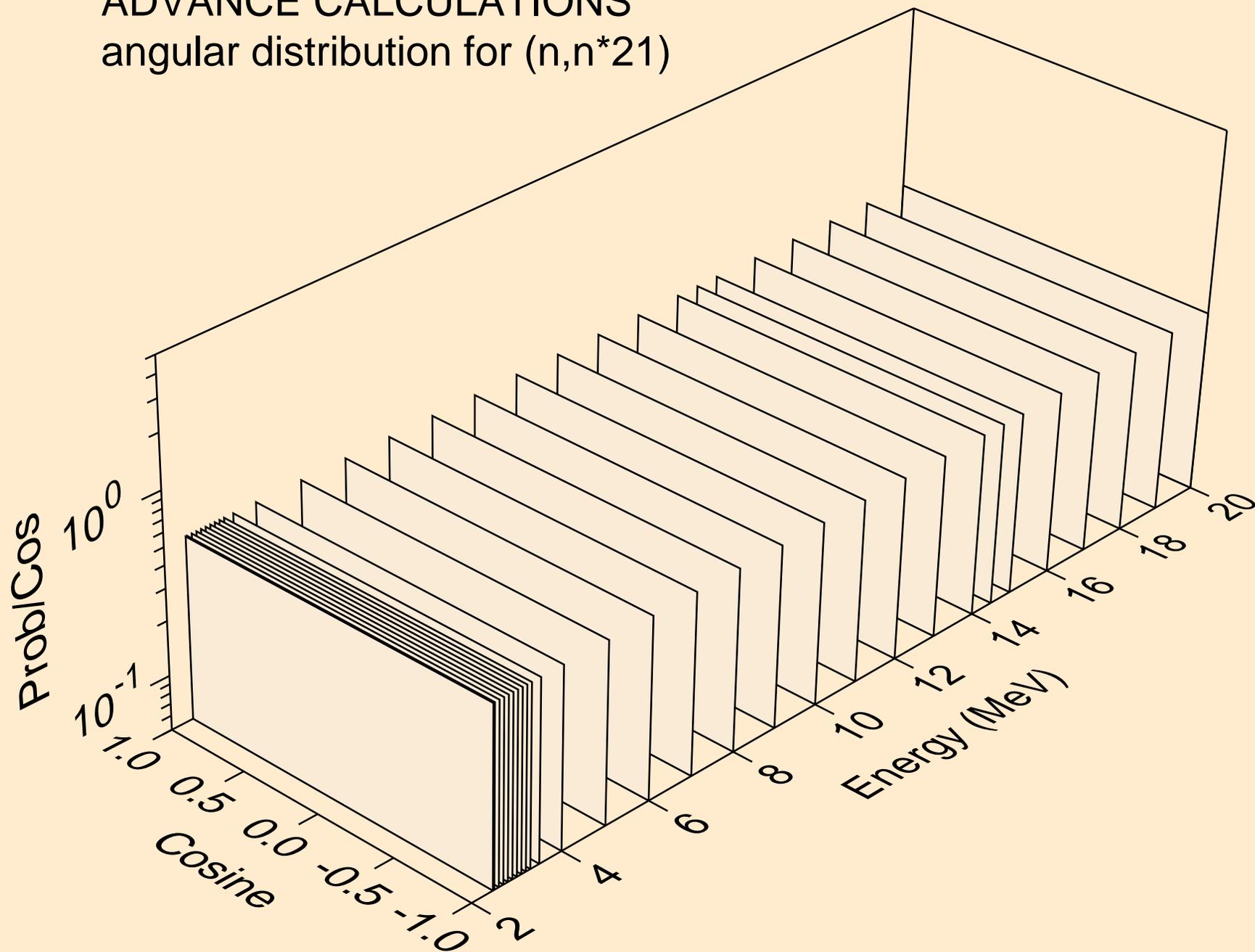
ADVANCE CALCULATIONS  
angular distribution for (n,n\*19)



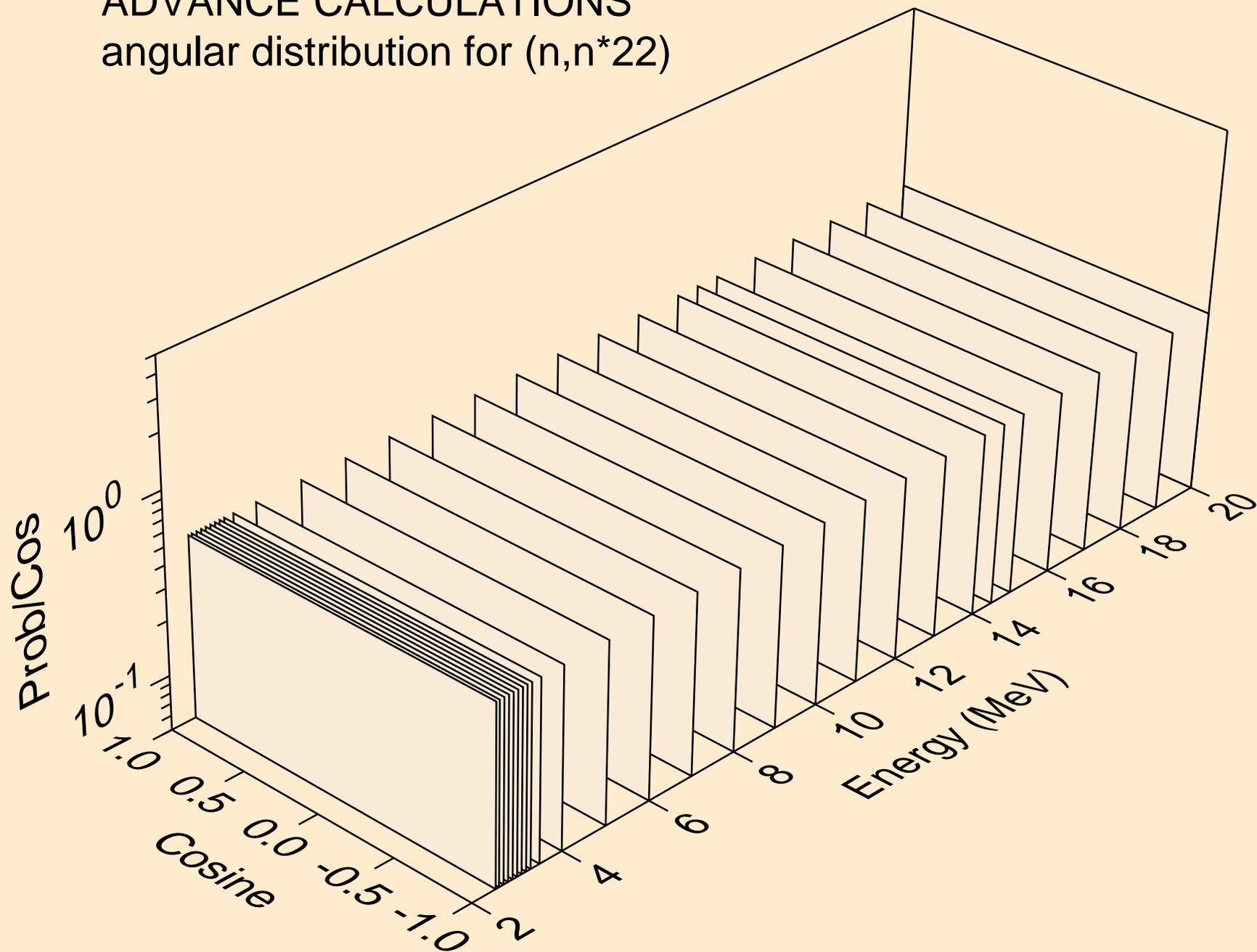
ADVANCE CALCULATIONS  
angular distribution for (n,n\*20)



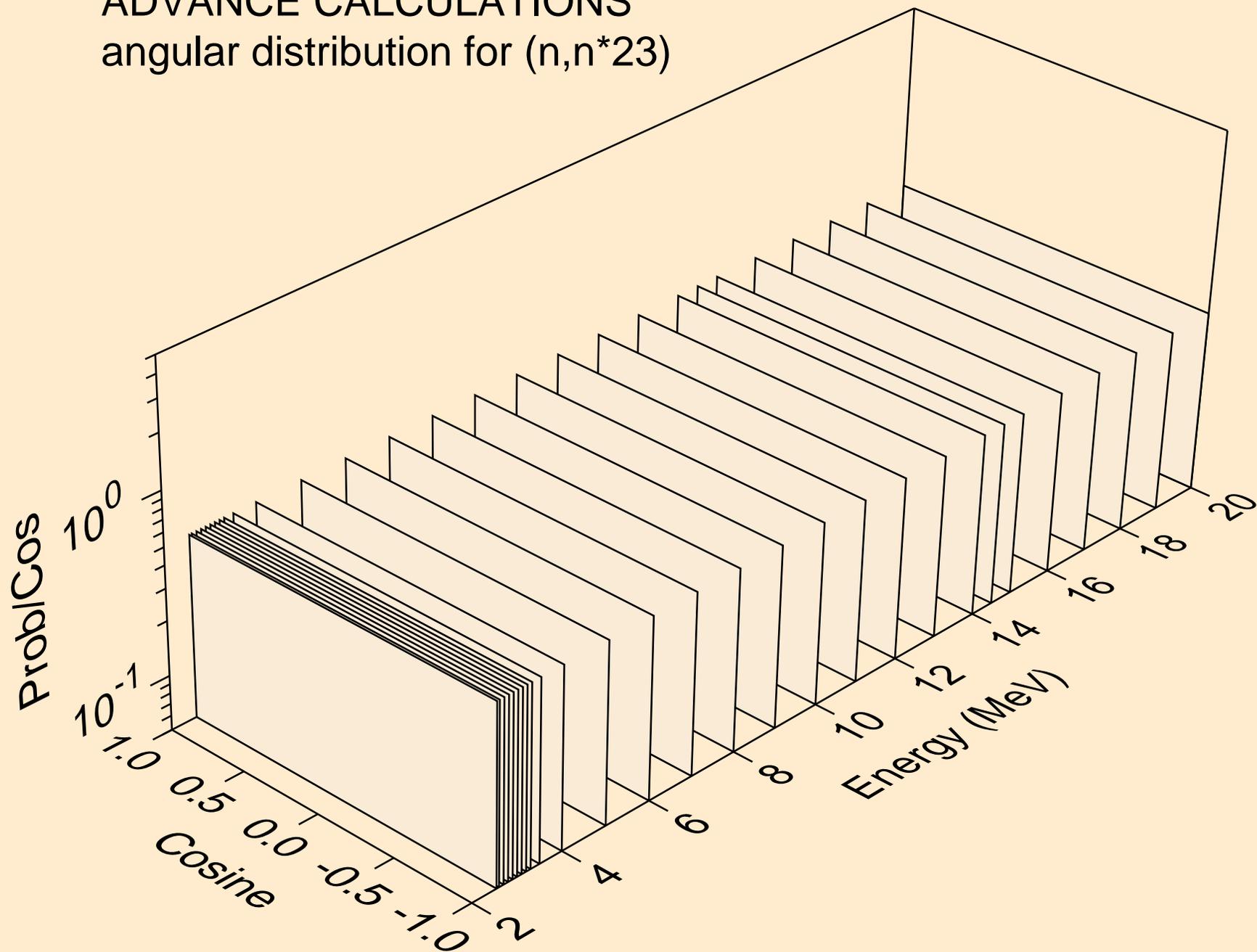
ADVANCE CALCULATIONS  
angular distribution for (n,n\*21)



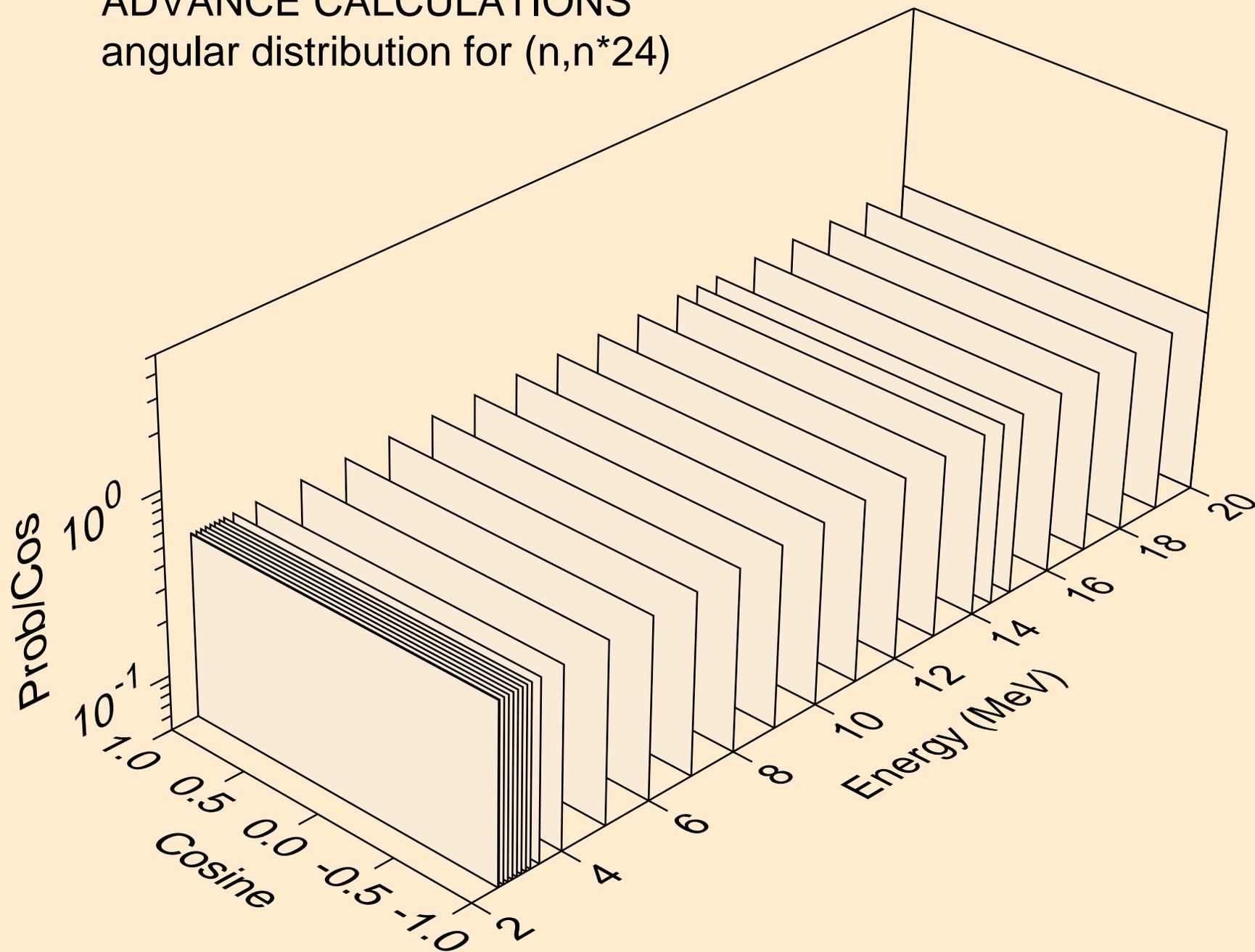
ADVANCE CALCULATIONS  
angular distribution for (n,n\*22)



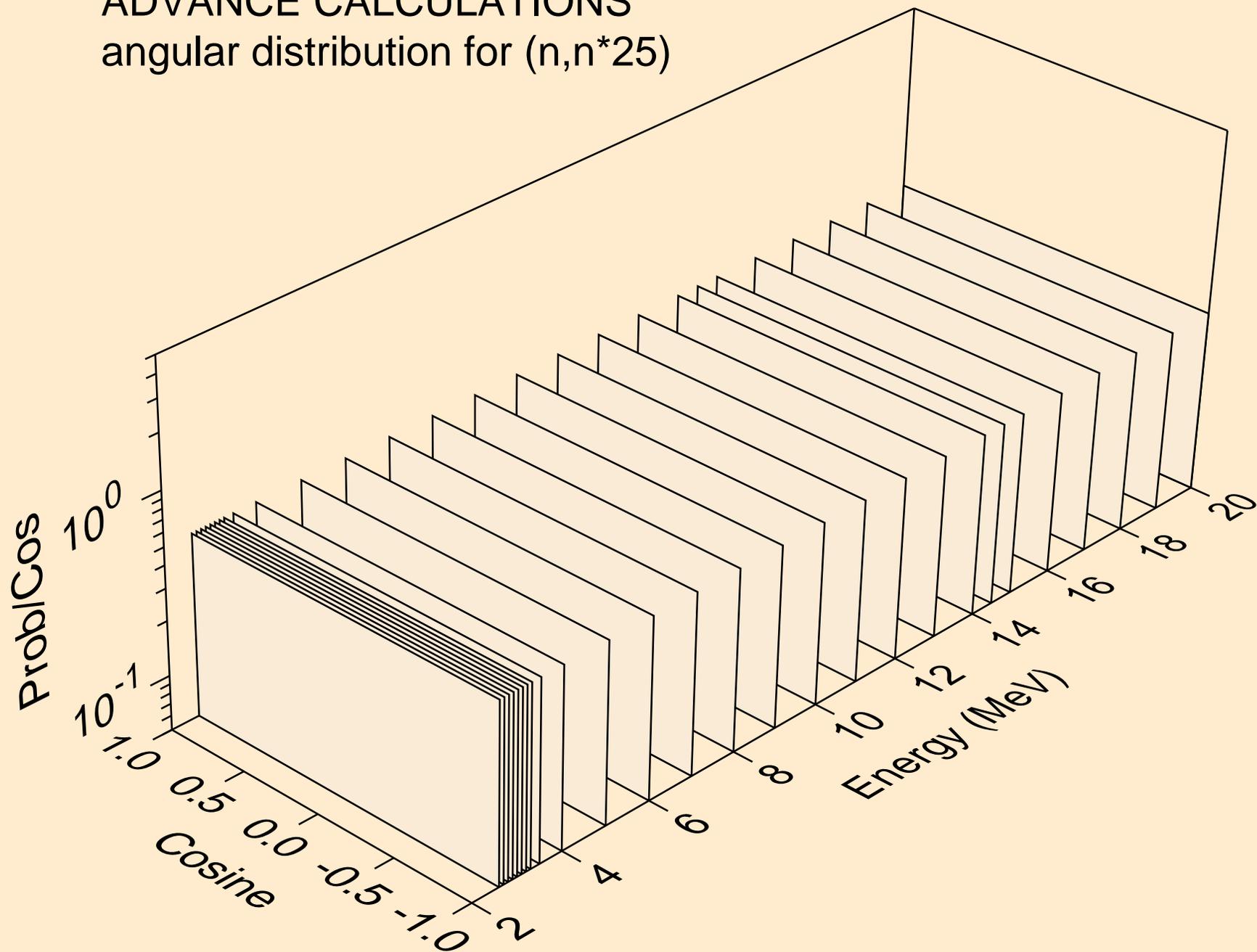
ADVANCE CALCULATIONS  
angular distribution for (n,n\*23)



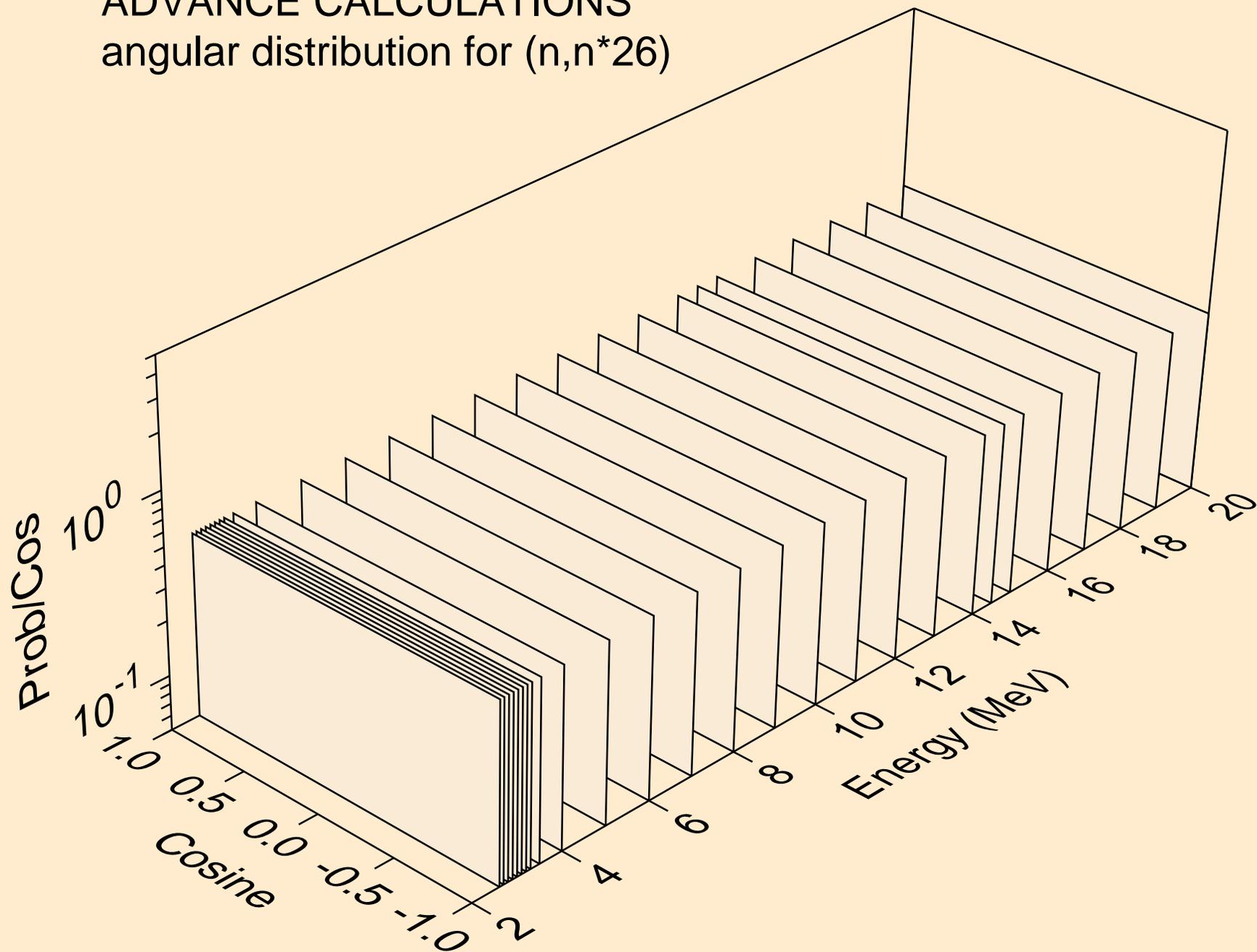
ADVANCE CALCULATIONS  
angular distribution for (n,n\*24)



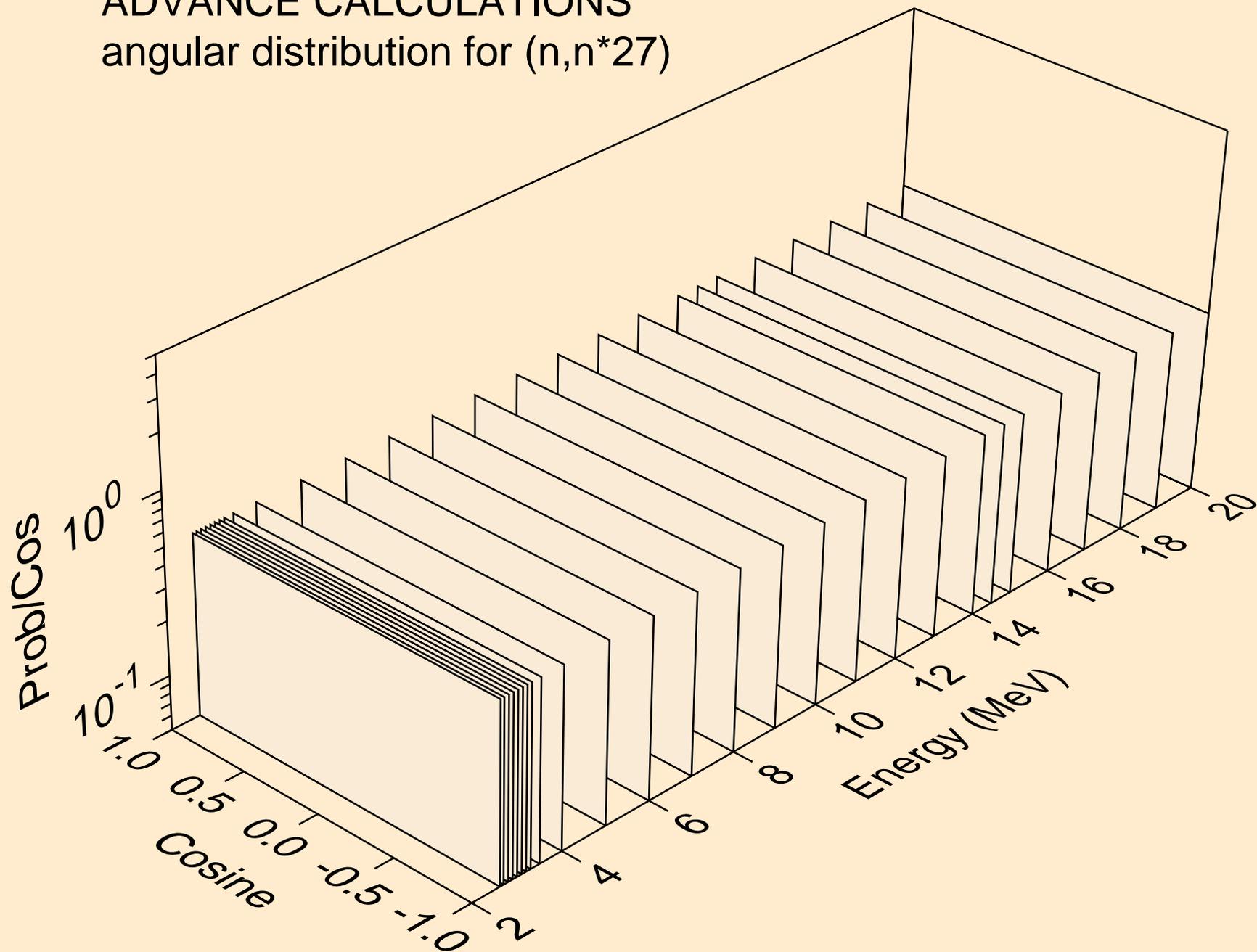
ADVANCE CALCULATIONS  
angular distribution for (n,n\*25)



ADVANCE CALCULATIONS  
angular distribution for (n,n\*26)

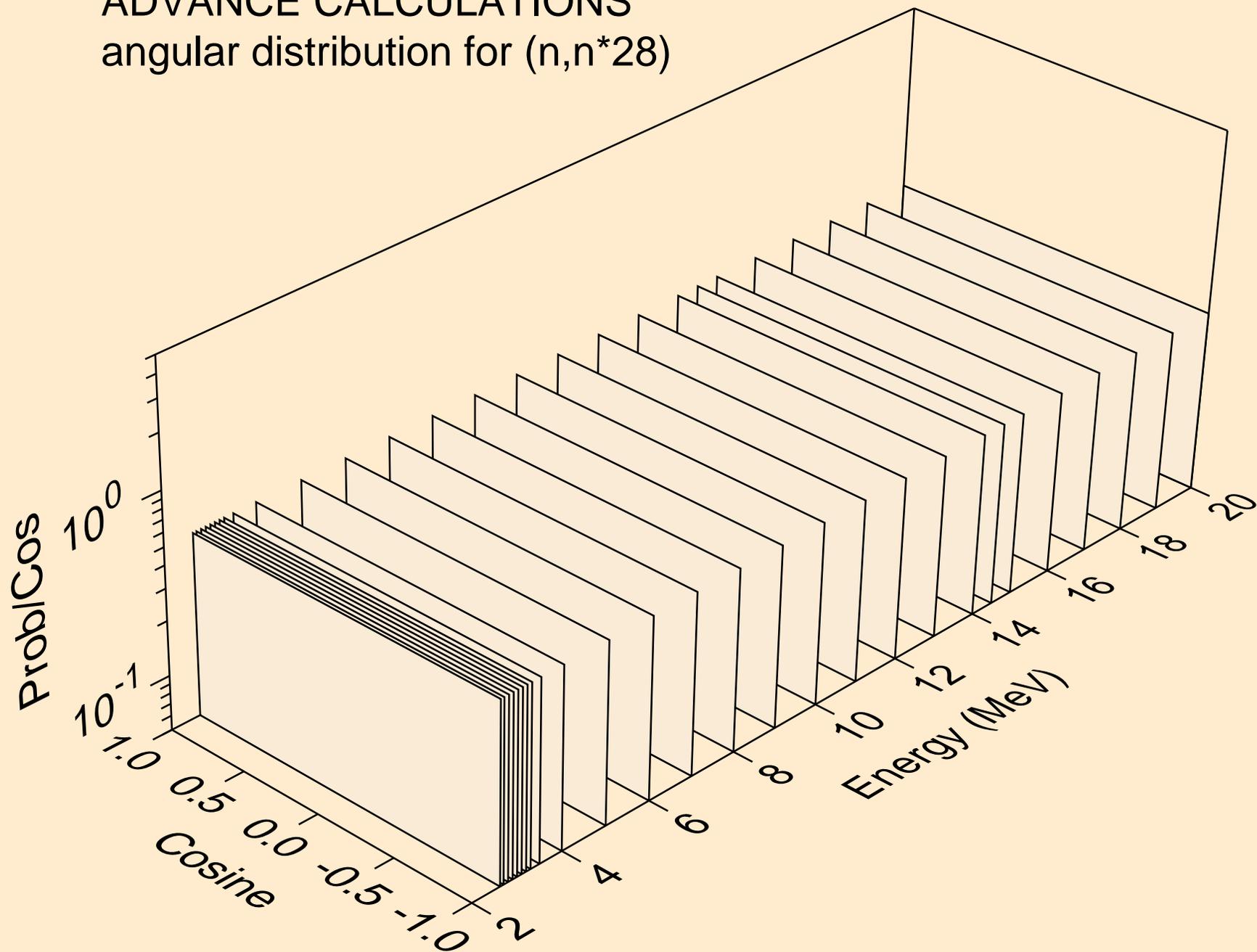


ADVANCE CALCULATIONS  
angular distribution for (n,n\*27)

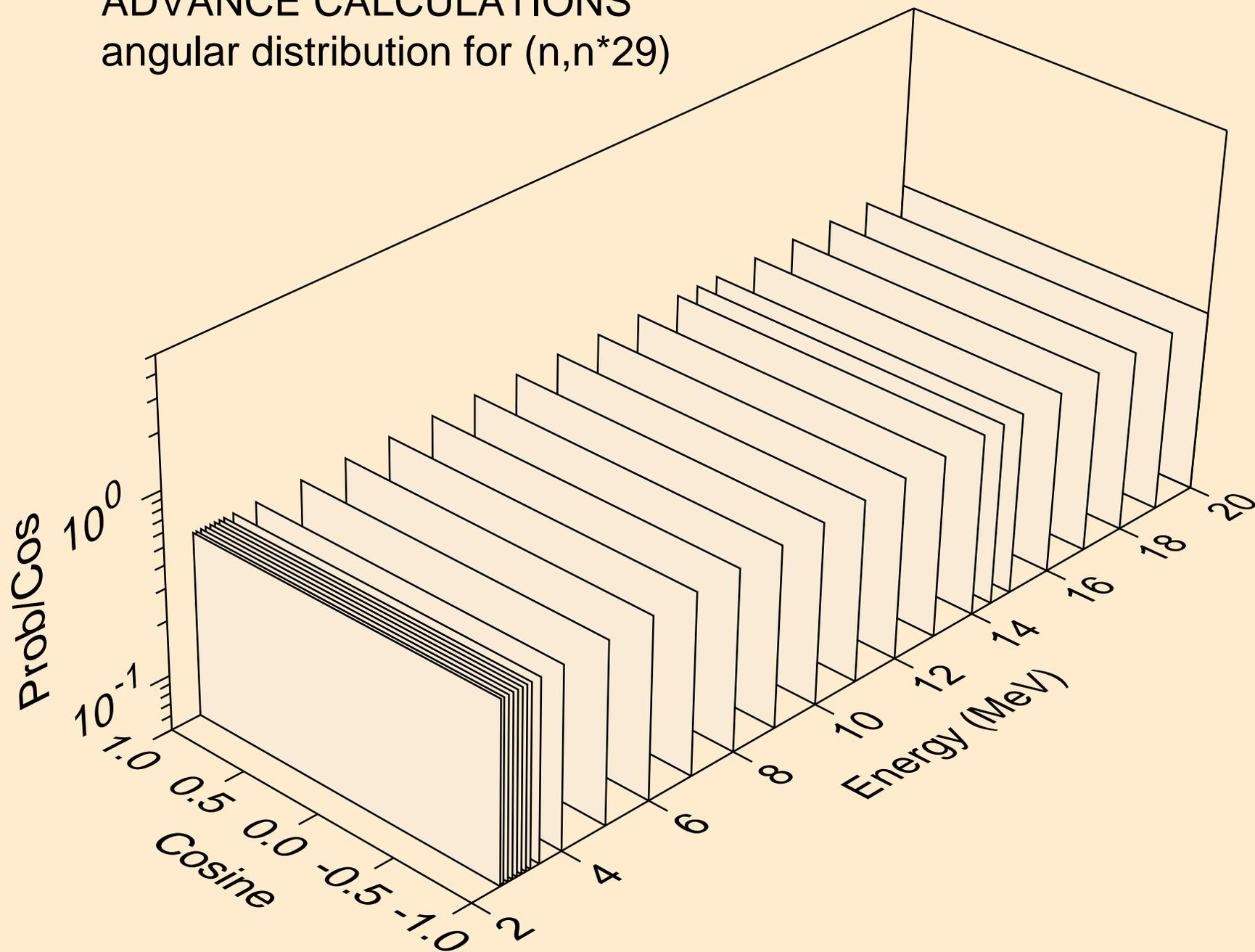


# ADVANCE CALCULATIONS

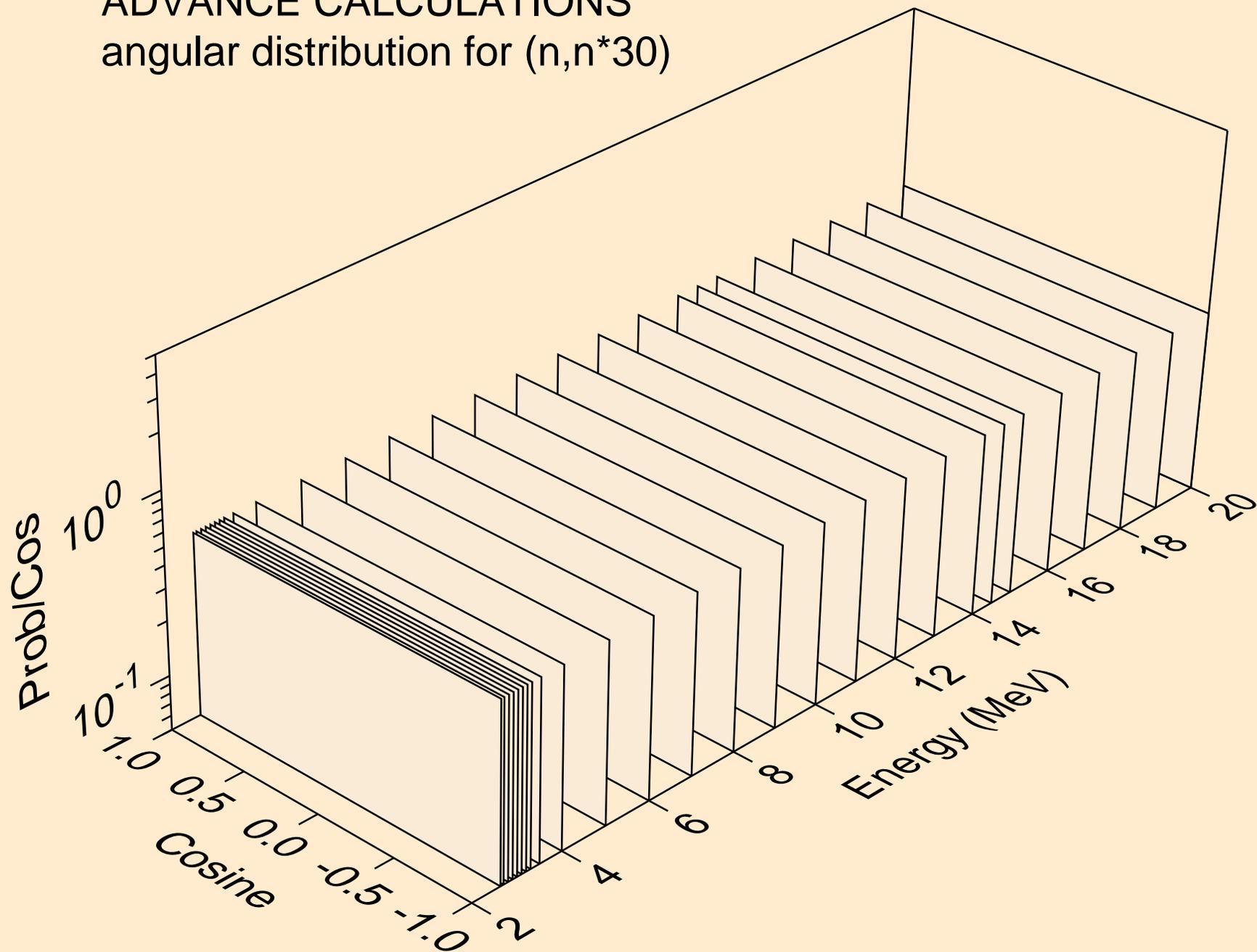
angular distribution for (n,n\*28)



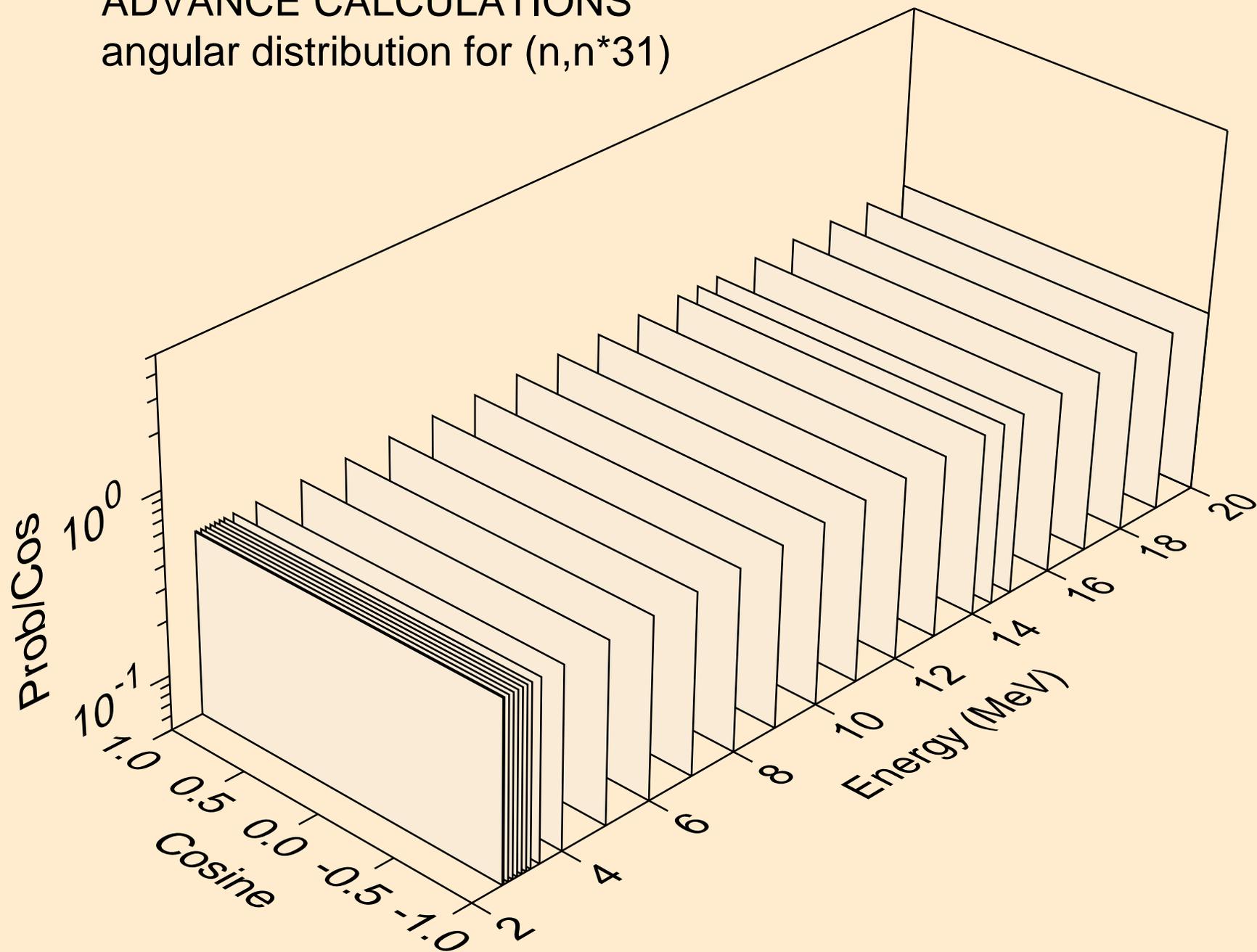
ADVANCE CALCULATIONS  
angular distribution for (n,n\*29)



ADVANCE CALCULATIONS  
angular distribution for (n,n\*30)

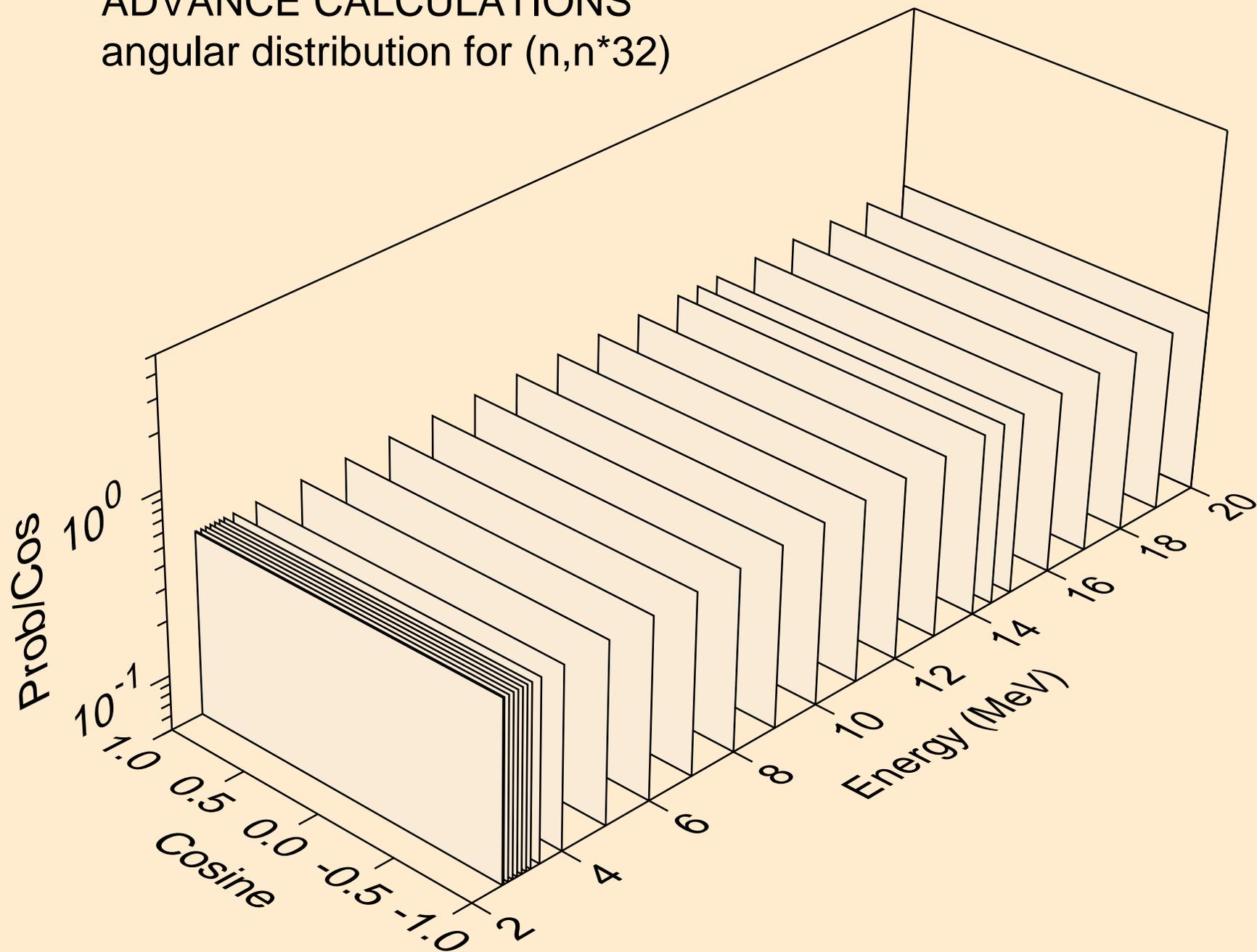


ADVANCE CALCULATIONS  
angular distribution for (n,n\*31)

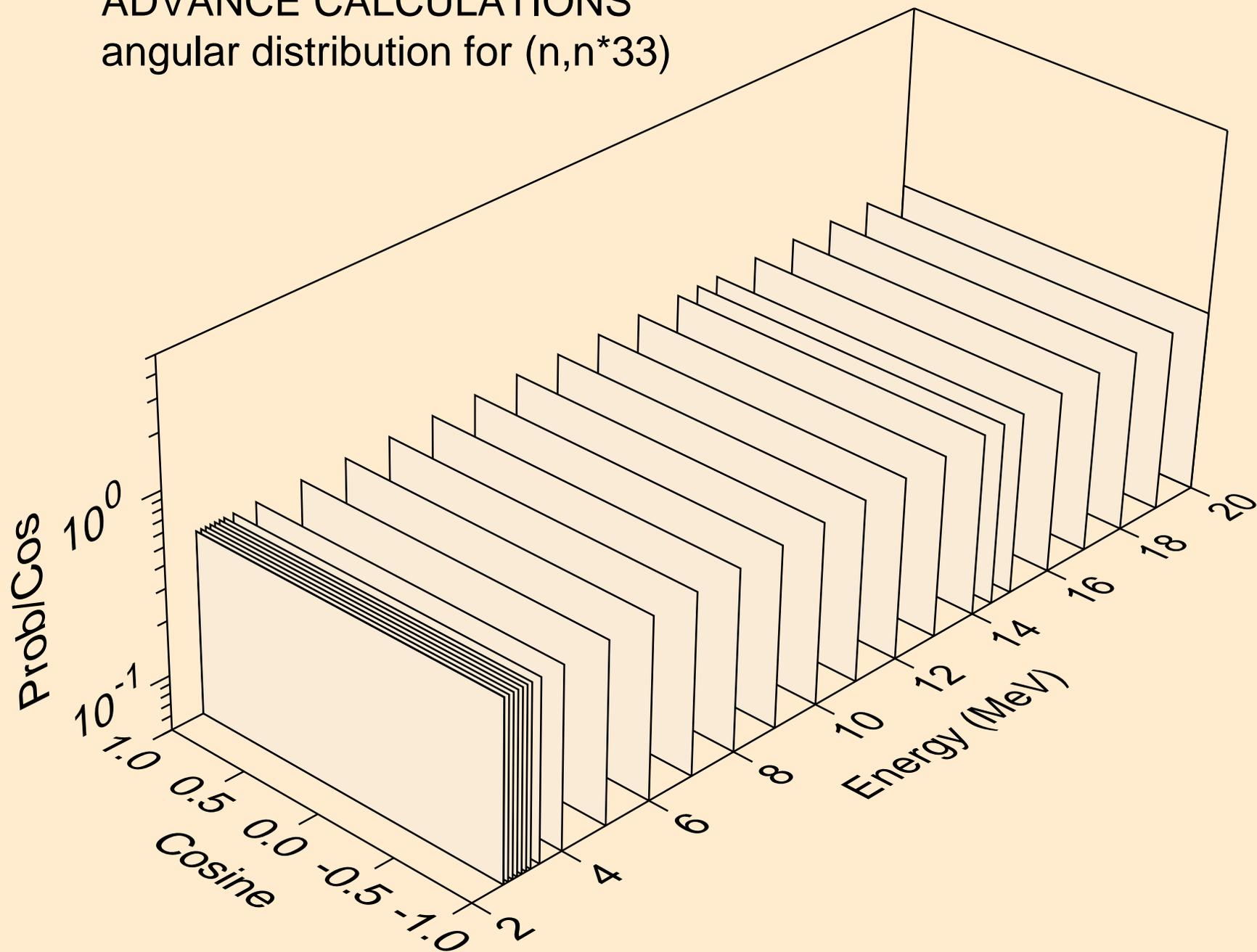


# ADVANCE CALCULATIONS

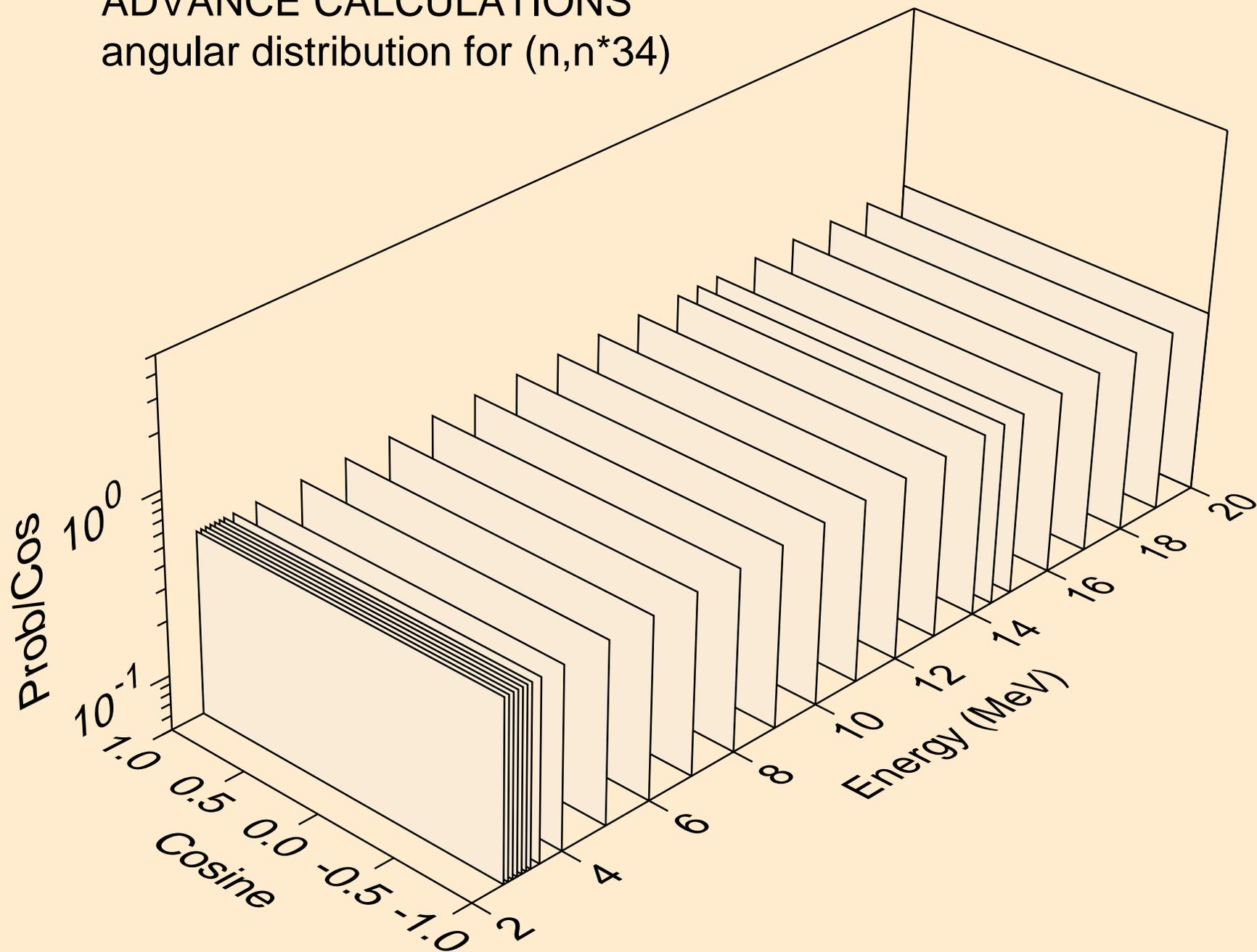
angular distribution for (n,n\*32)



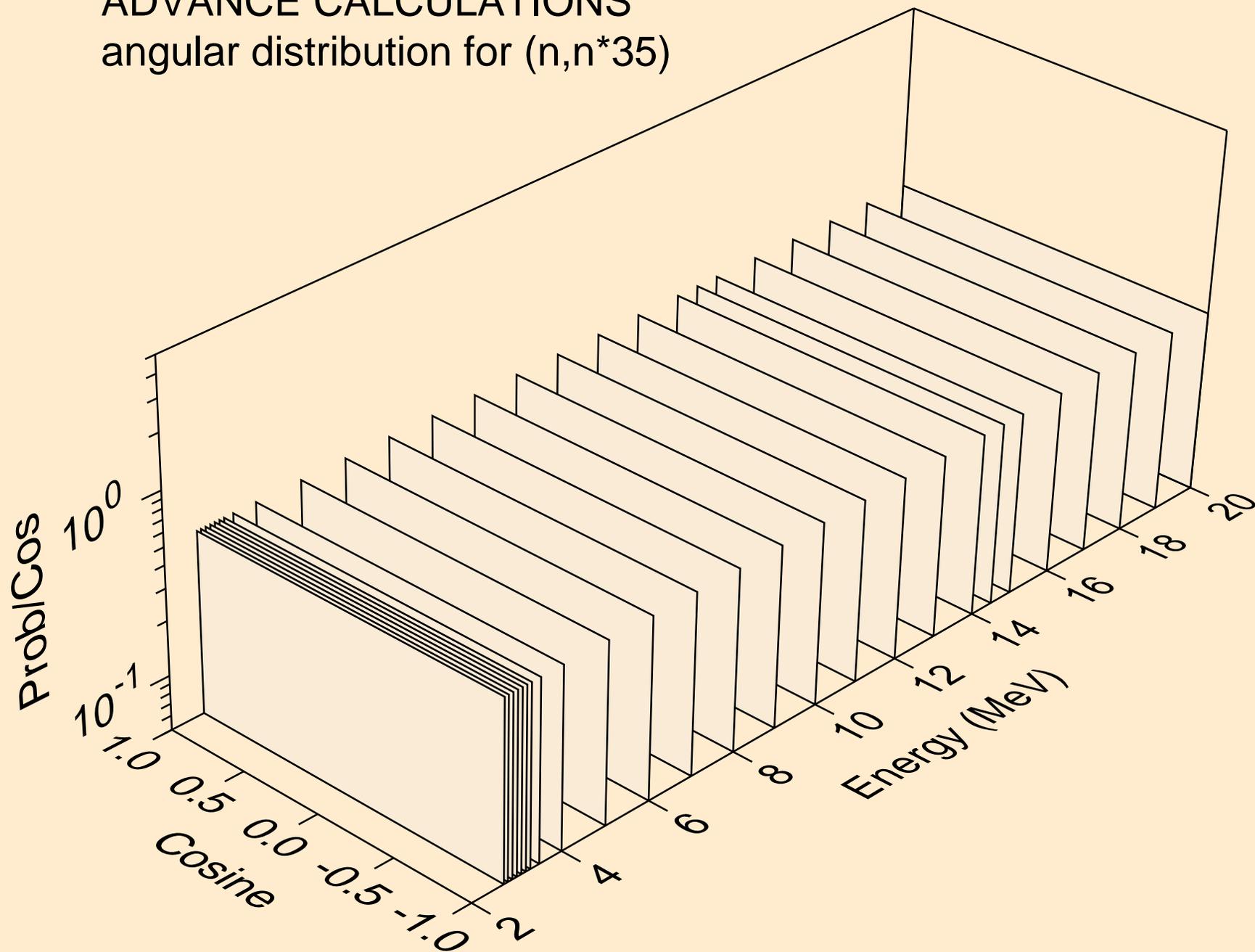
ADVANCE CALCULATIONS  
angular distribution for (n,n\*33)



ADVANCE CALCULATIONS  
angular distribution for (n,n\*34)

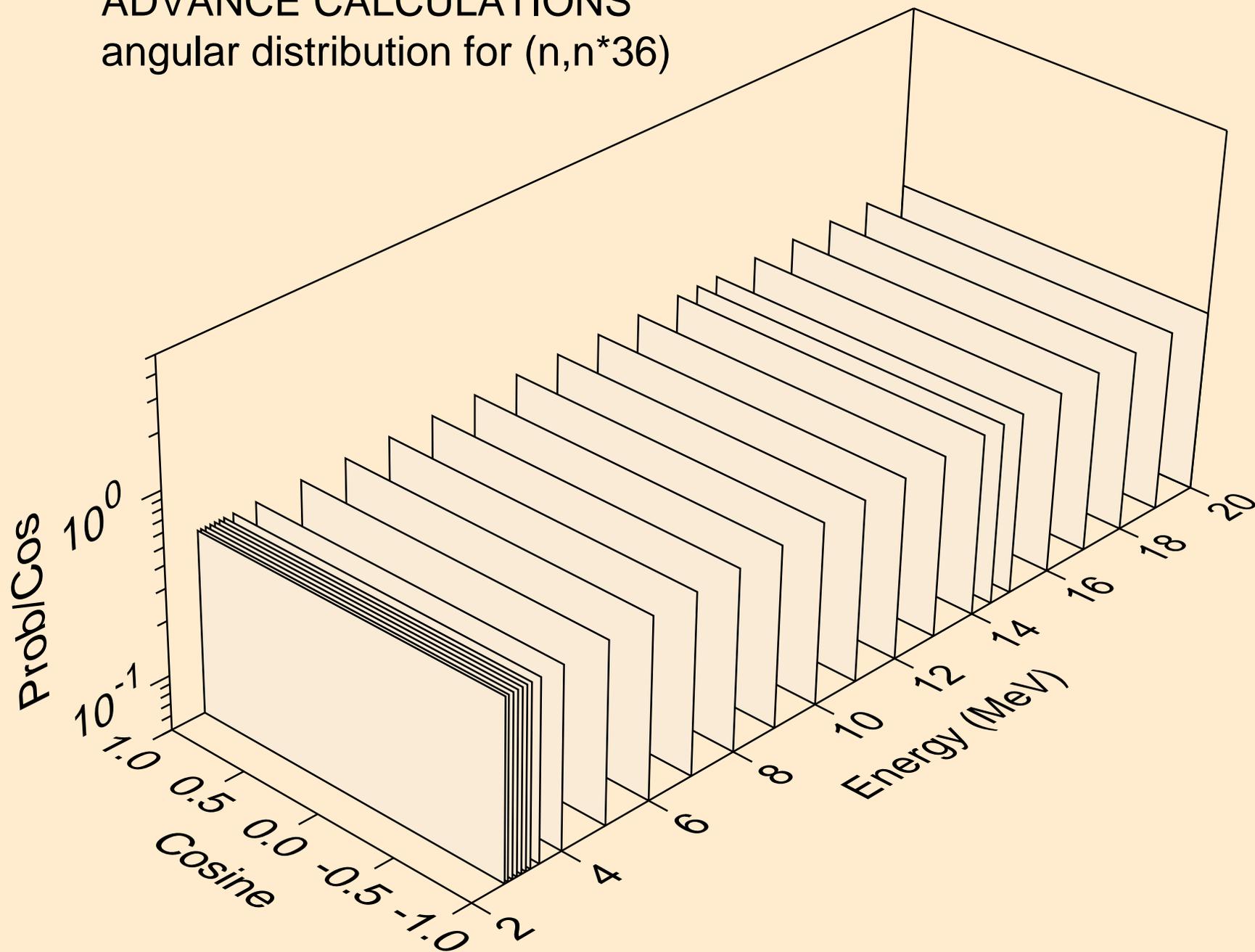


ADVANCE CALCULATIONS  
angular distribution for (n,n\*35)

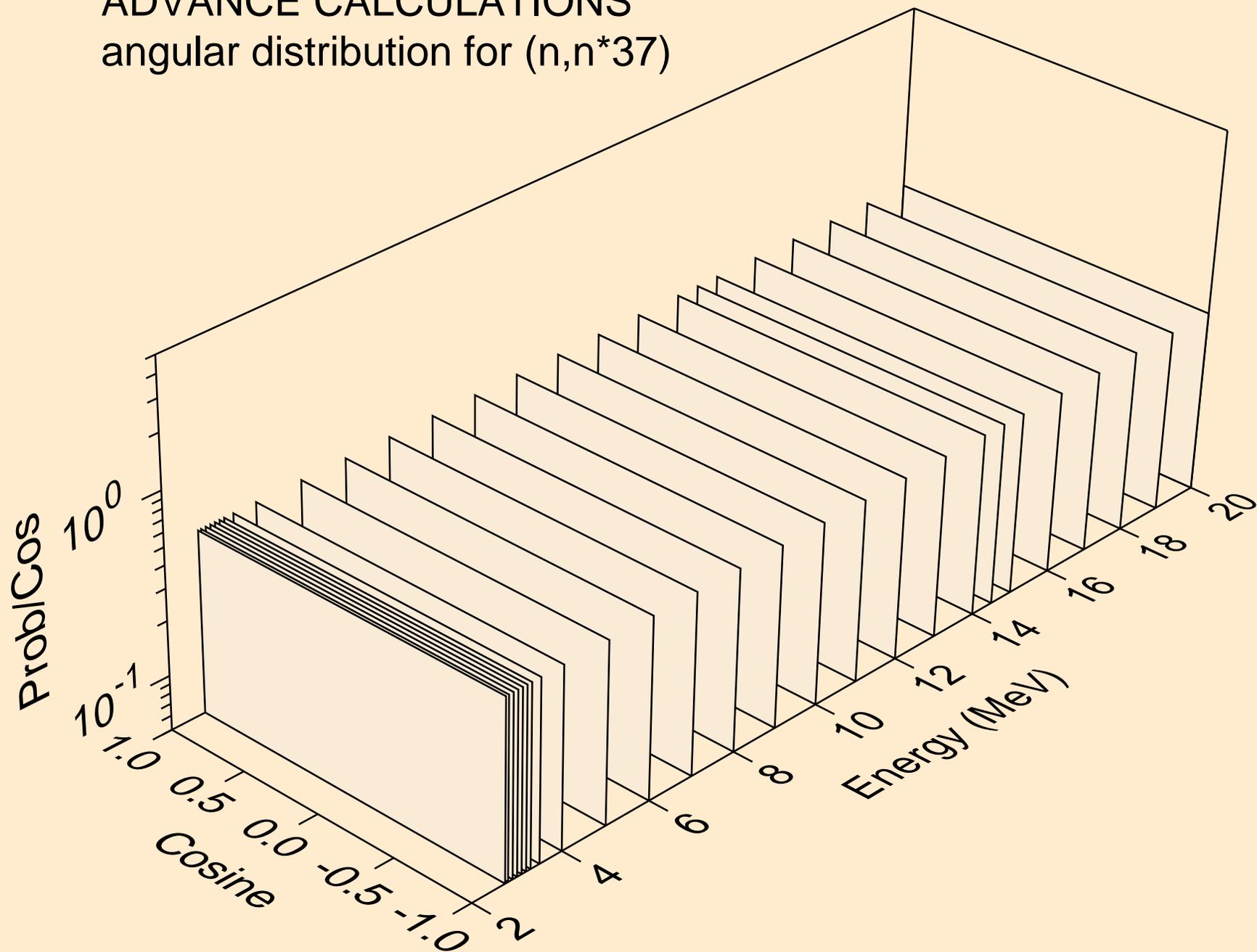


# ADVANCE CALCULATIONS

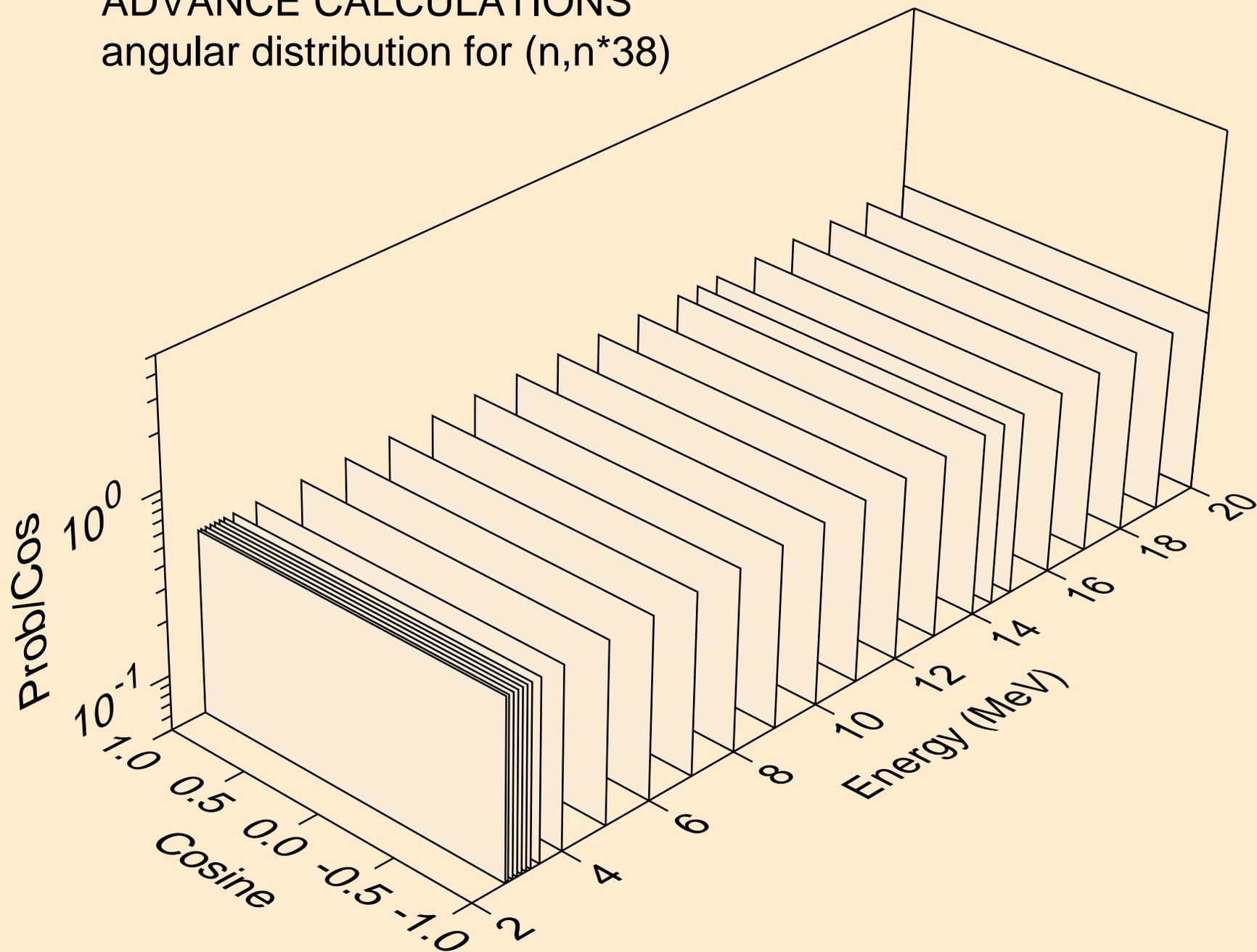
angular distribution for (n,n\*36)



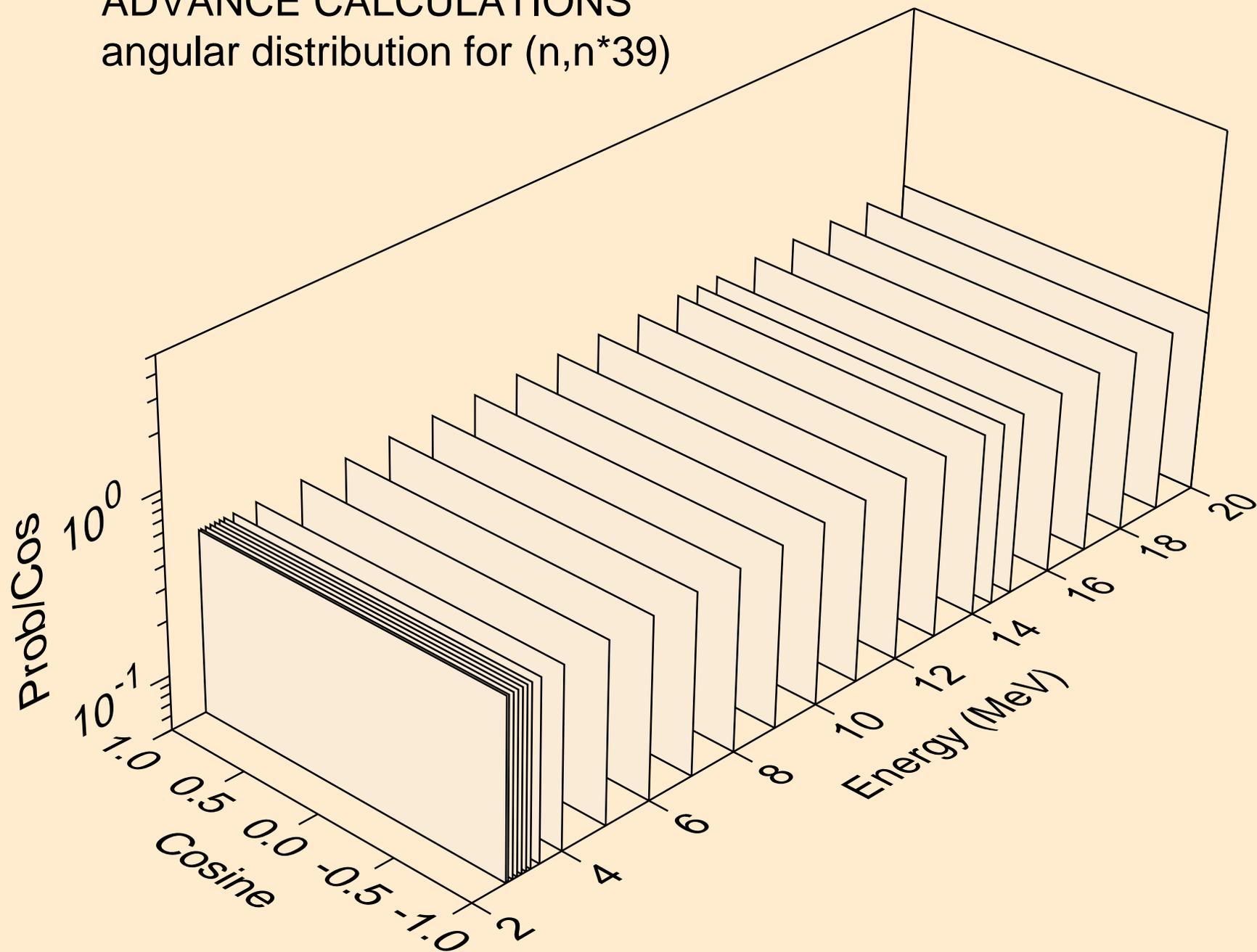
ADVANCE CALCULATIONS  
angular distribution for (n,n\*37)



ADVANCE CALCULATIONS  
angular distribution for (n,n\*38)

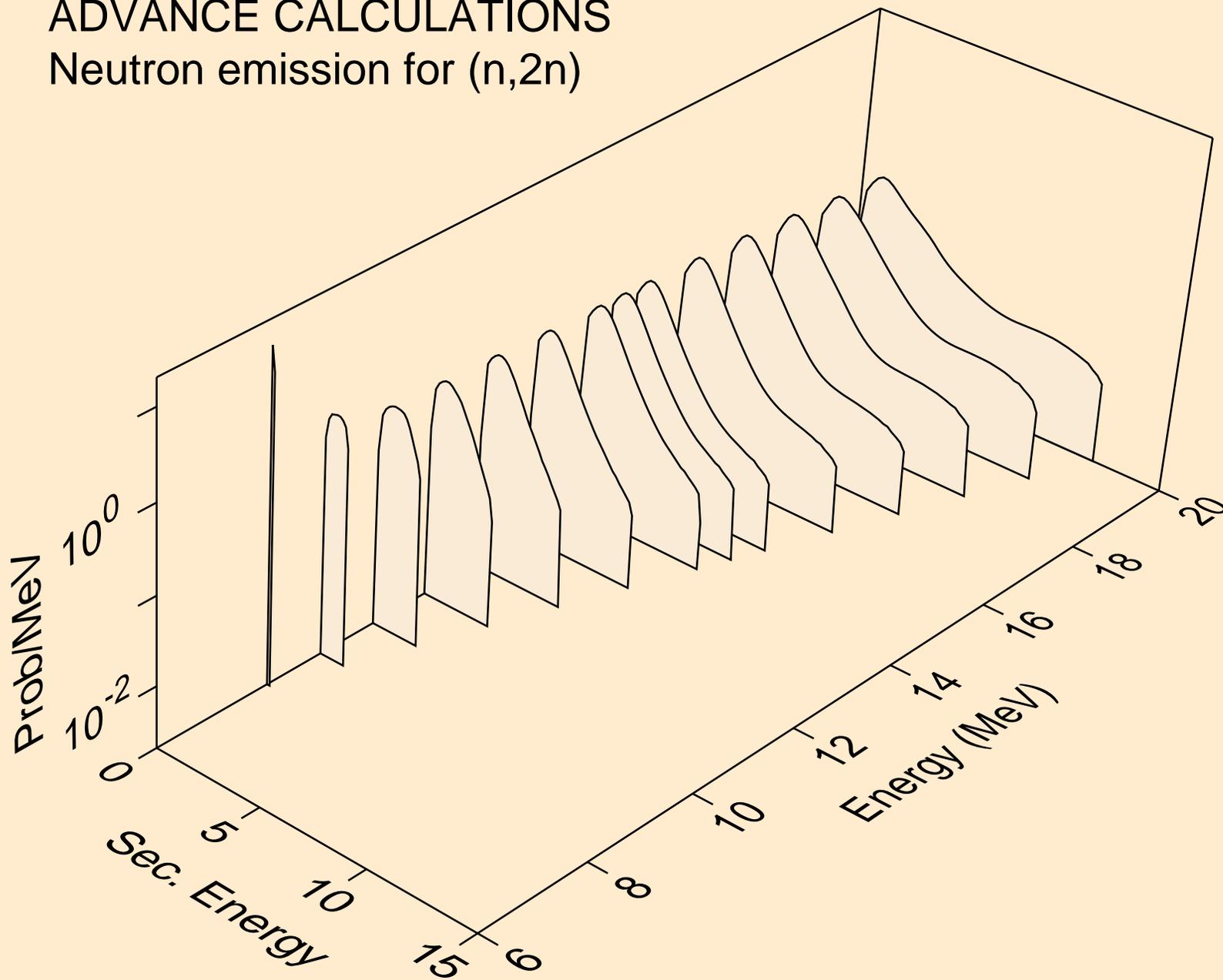


ADVANCE CALCULATIONS  
angular distribution for (n,n\*39)



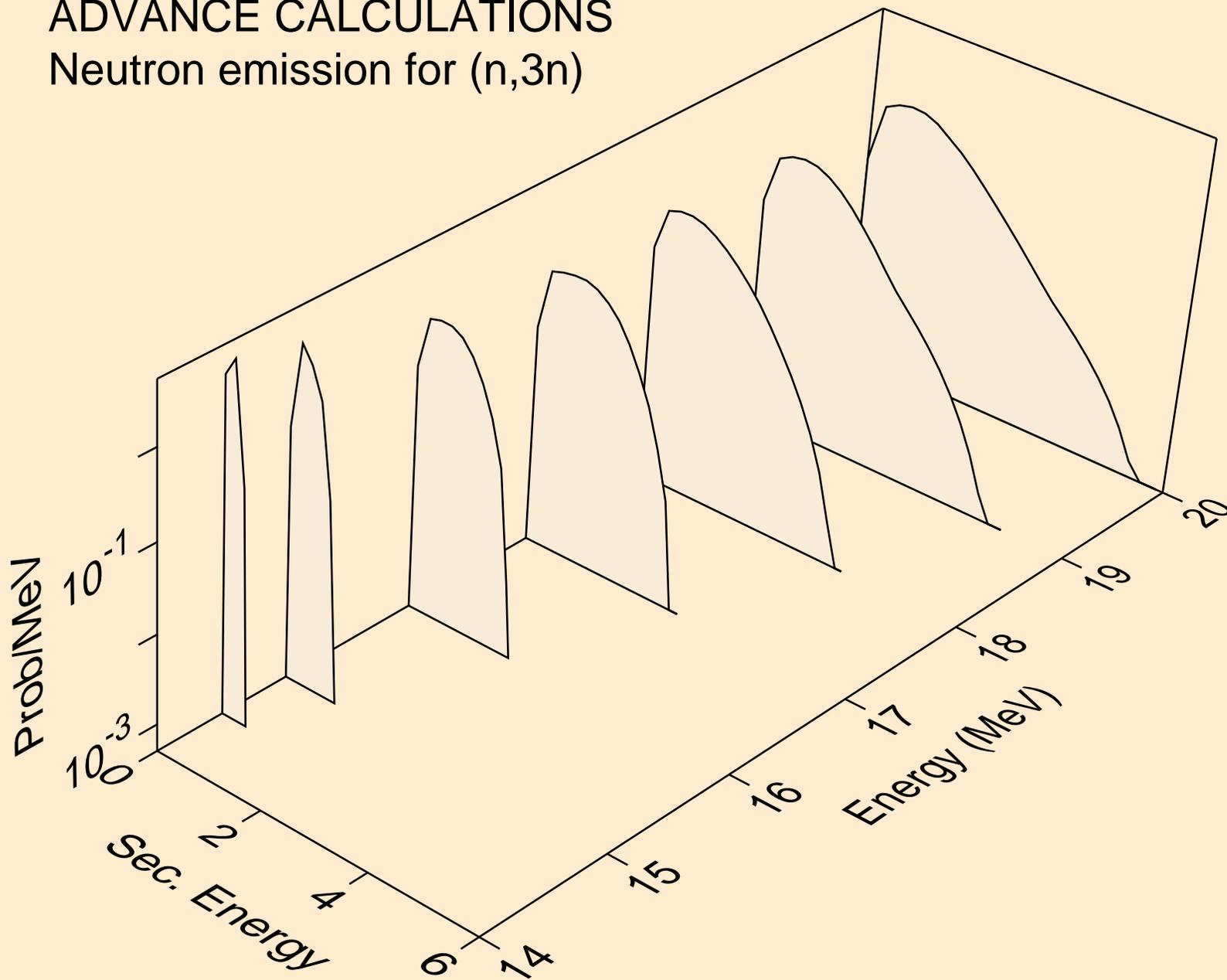
# ADVANCE CALCULATIONS

## Neutron emission for (n,2n)



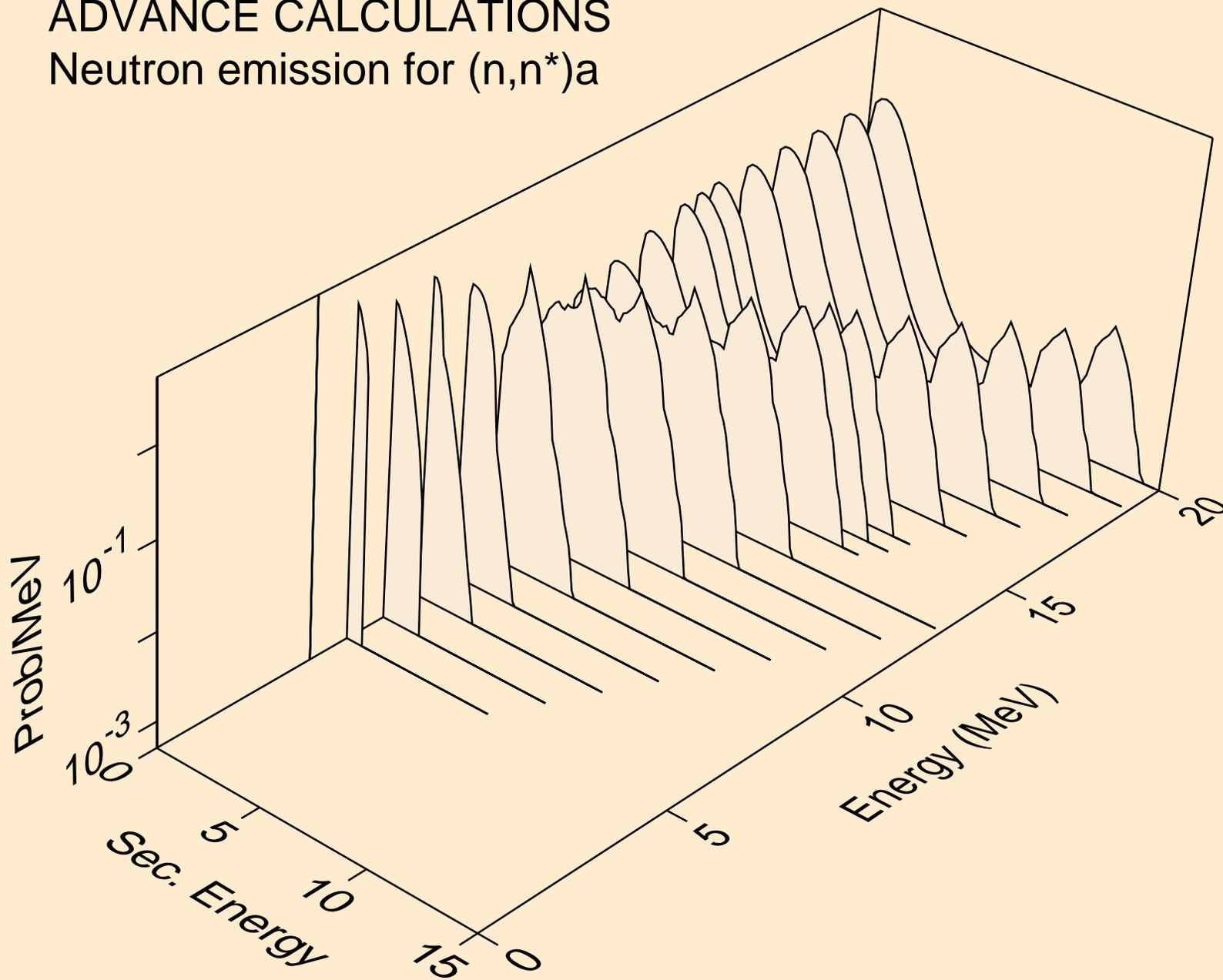
# ADVANCE CALCULATIONS

## Neutron emission for (n,3n)



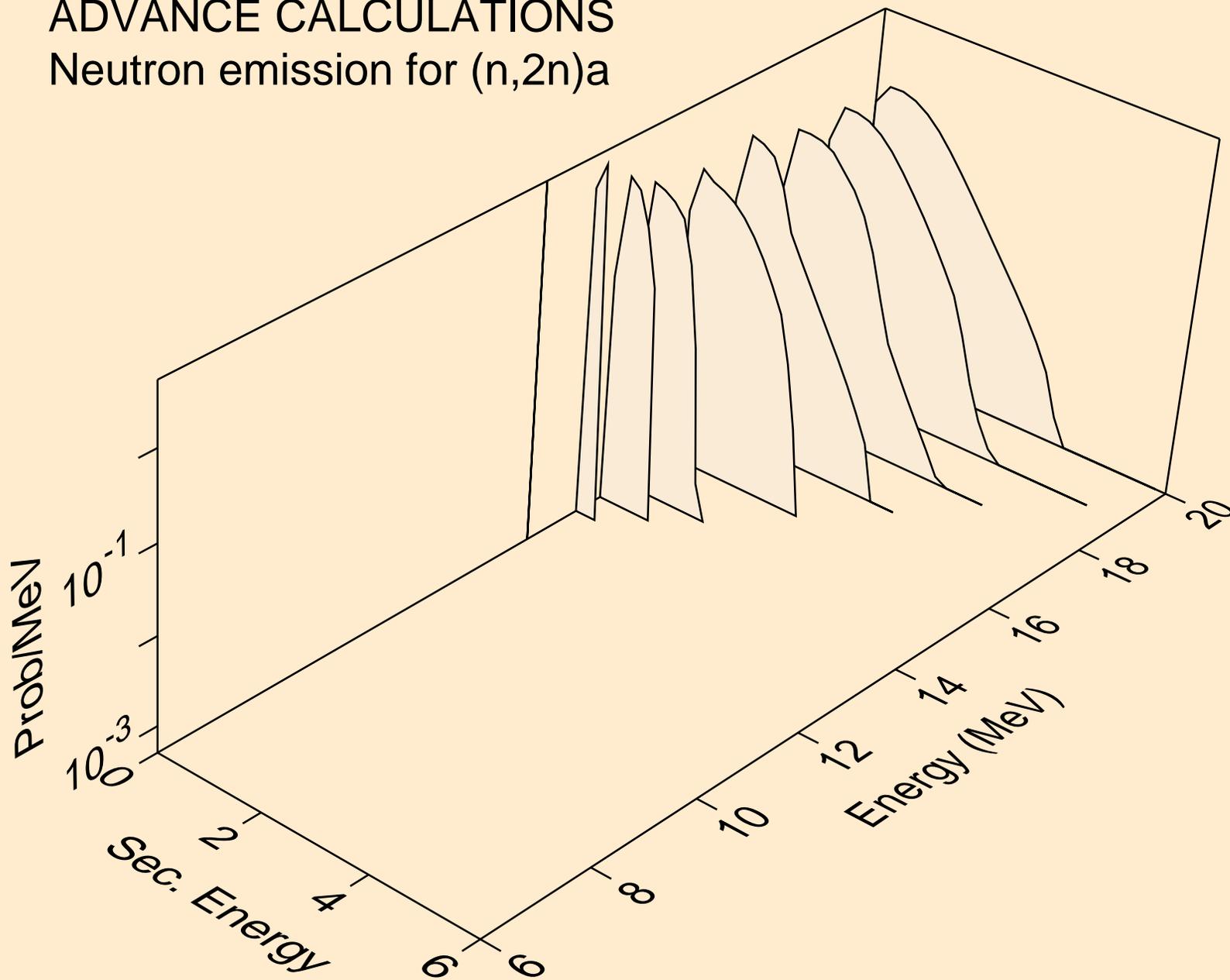
# ADVANCE CALCULATIONS

## Neutron emission for (n,n\*)a



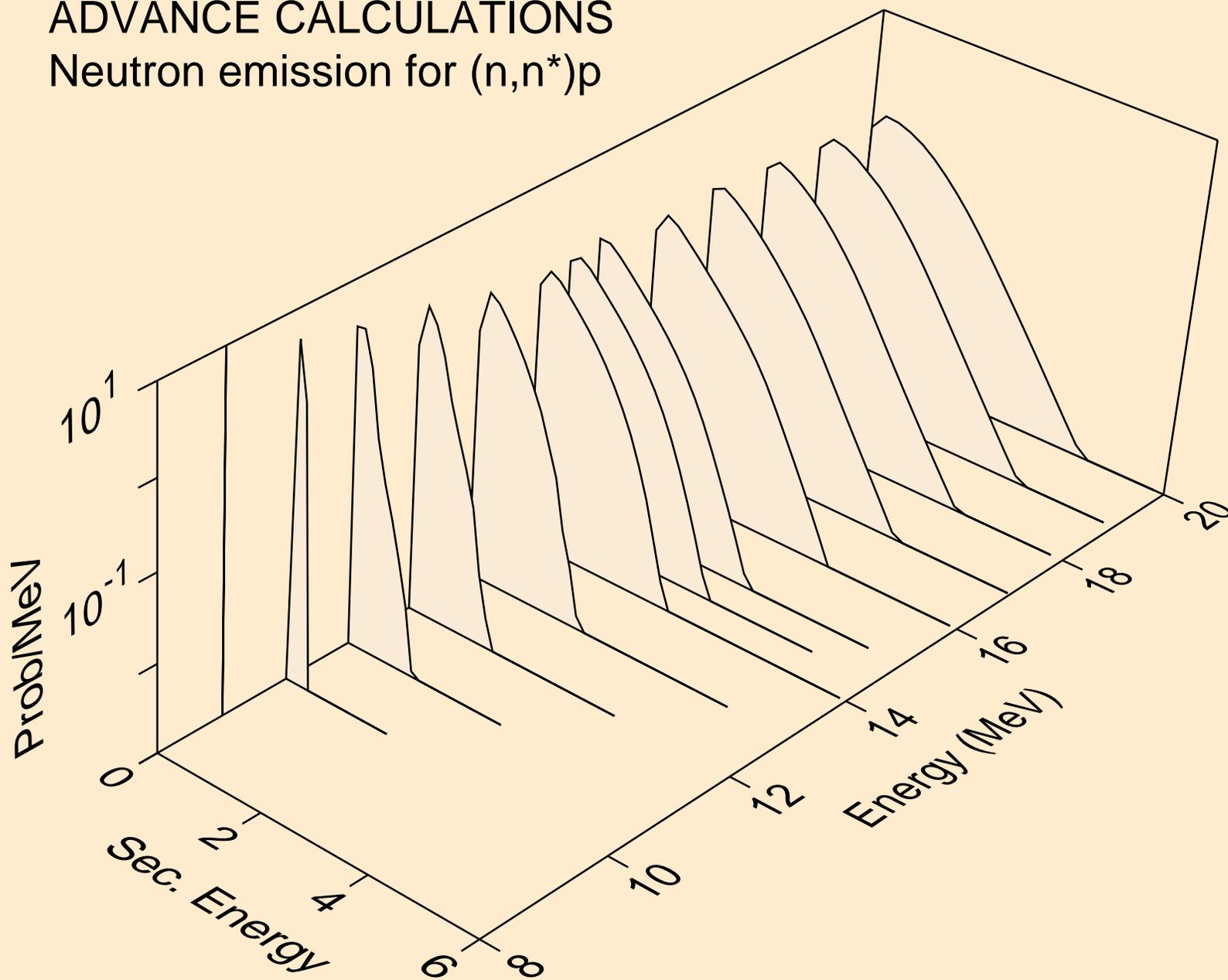
# ADVANCE CALCULATIONS

## Neutron emission for (n,2n)<sub>a</sub>



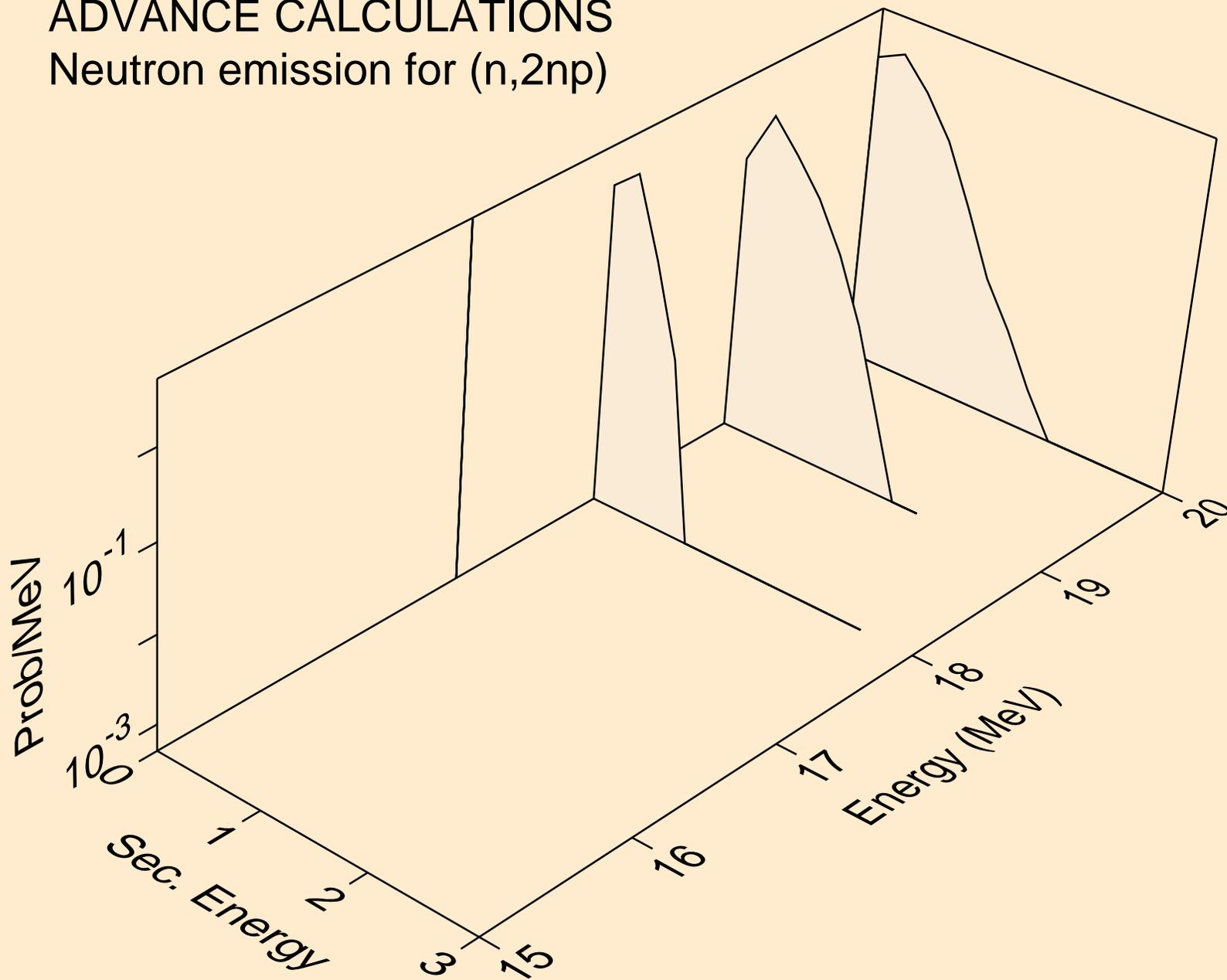
# ADVANCE CALCULATIONS

## Neutron emission for $(n,n^*)p$



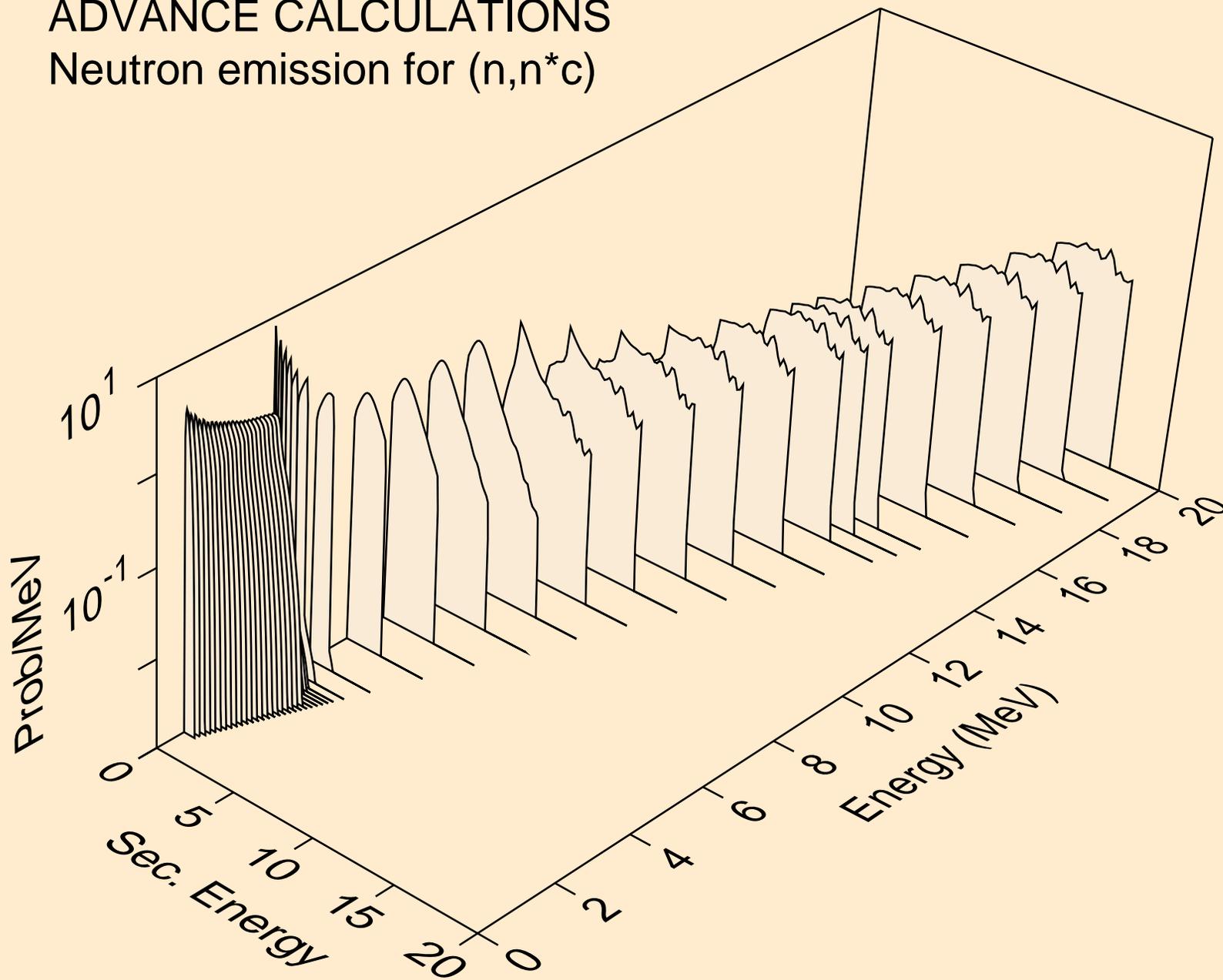
# ADVANCE CALCULATIONS

## Neutron emission for (n,2np)



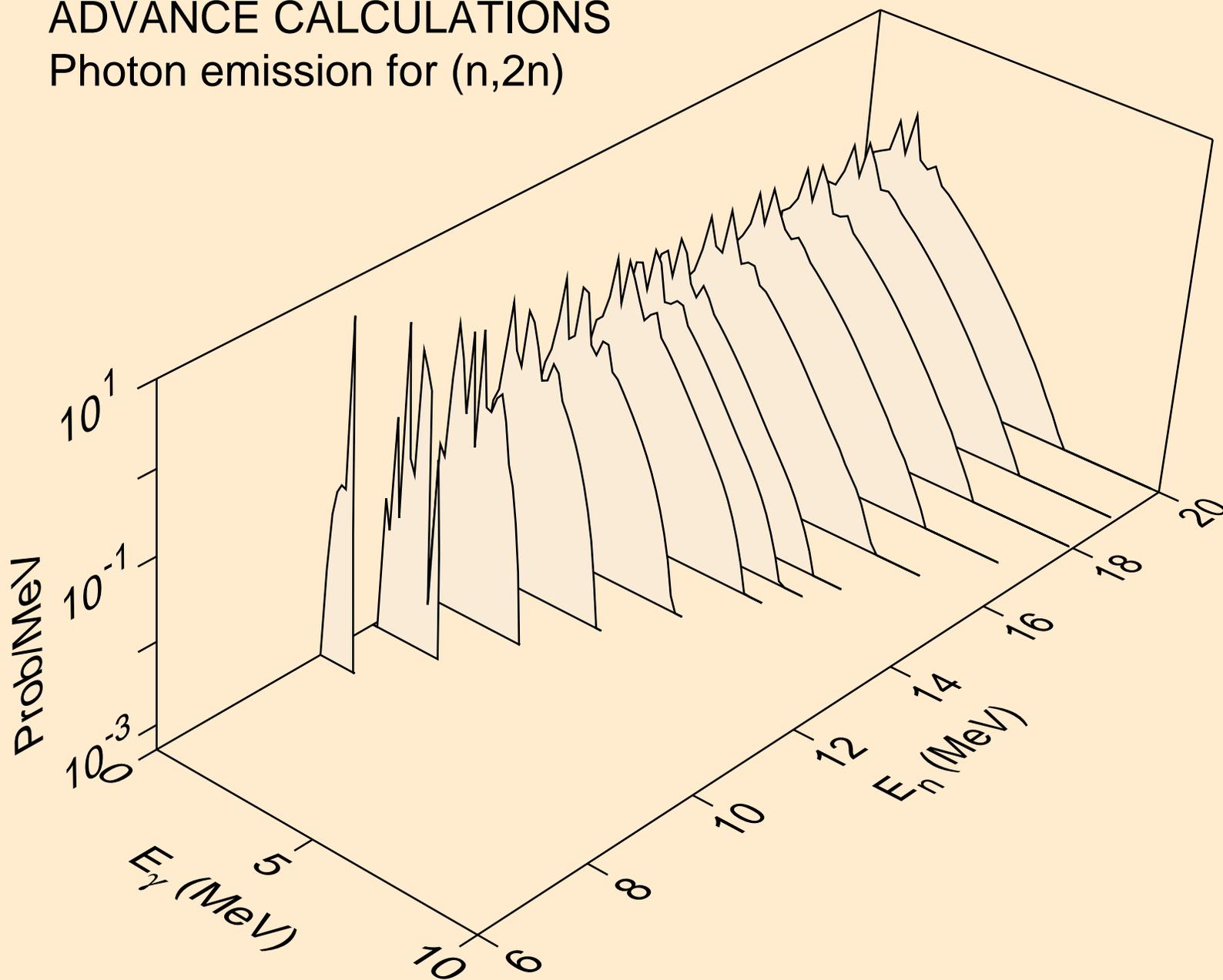
# ADVANCE CALCULATIONS

## Neutron emission for (n,n\*c)



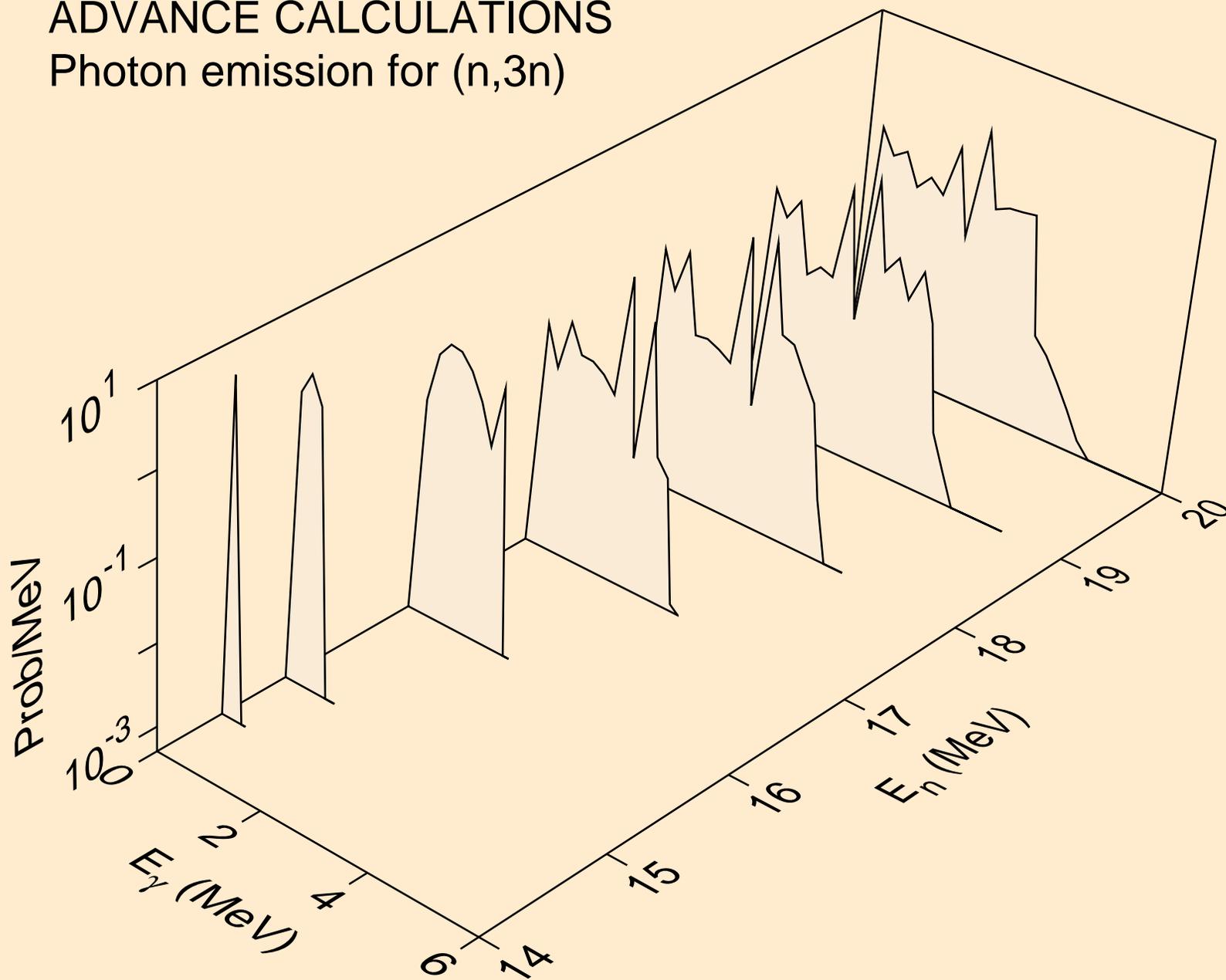
# ADVANCE CALCULATIONS

## Photon emission for (n,2n)



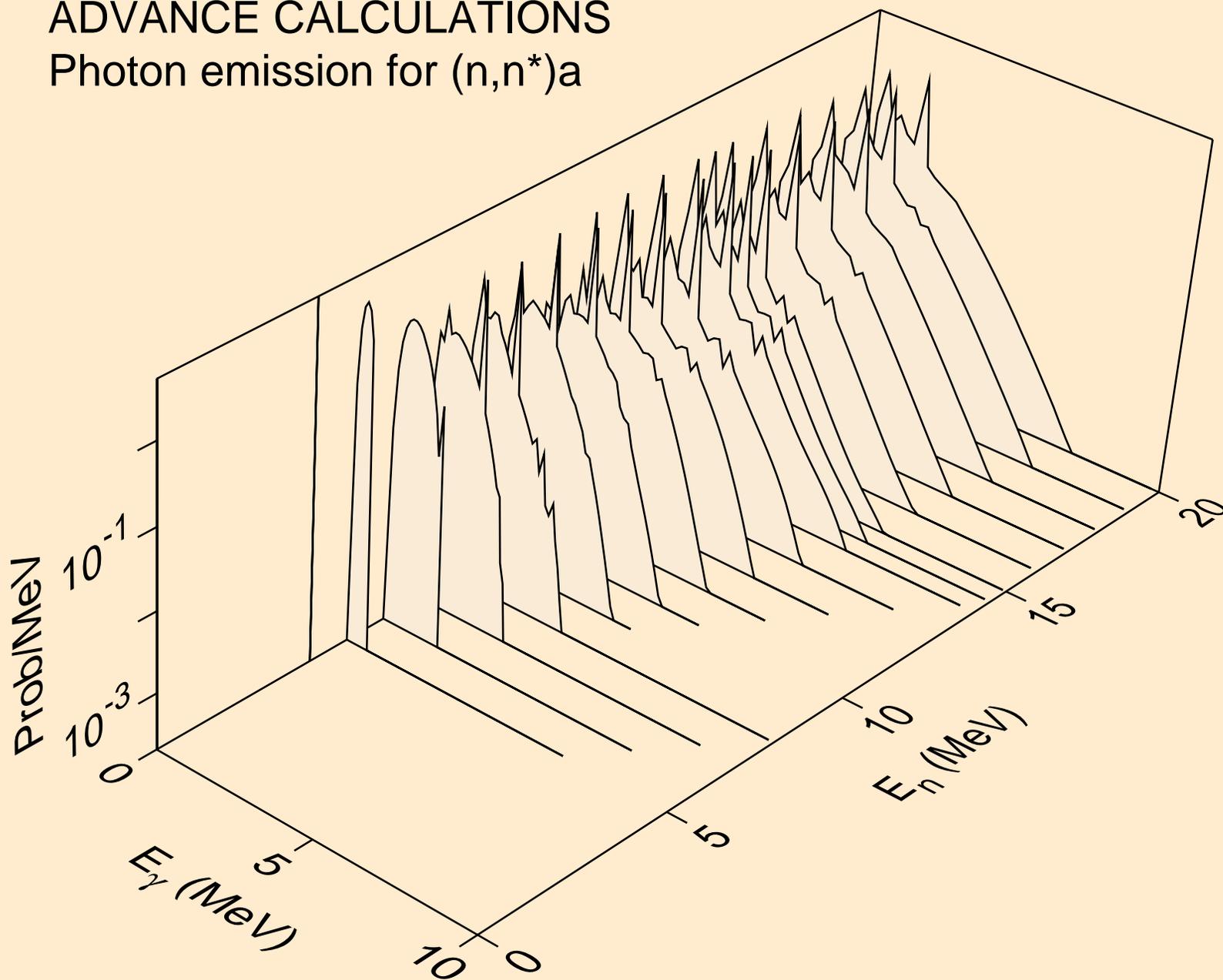
# ADVANCE CALCULATIONS

Photon emission for (n,3n)



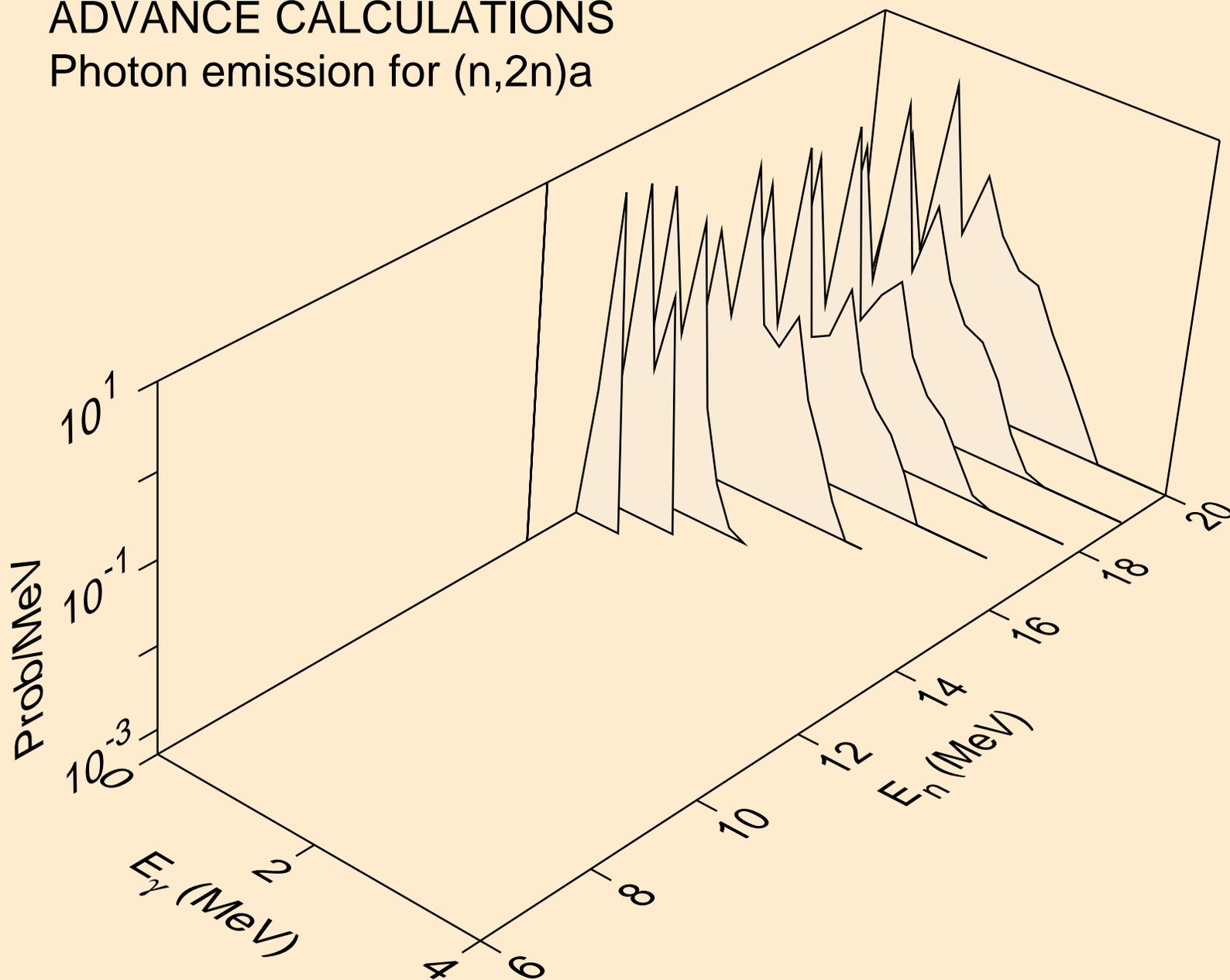
# ADVANCE CALCULATIONS

Photon emission for  $(n,n^*)_a$



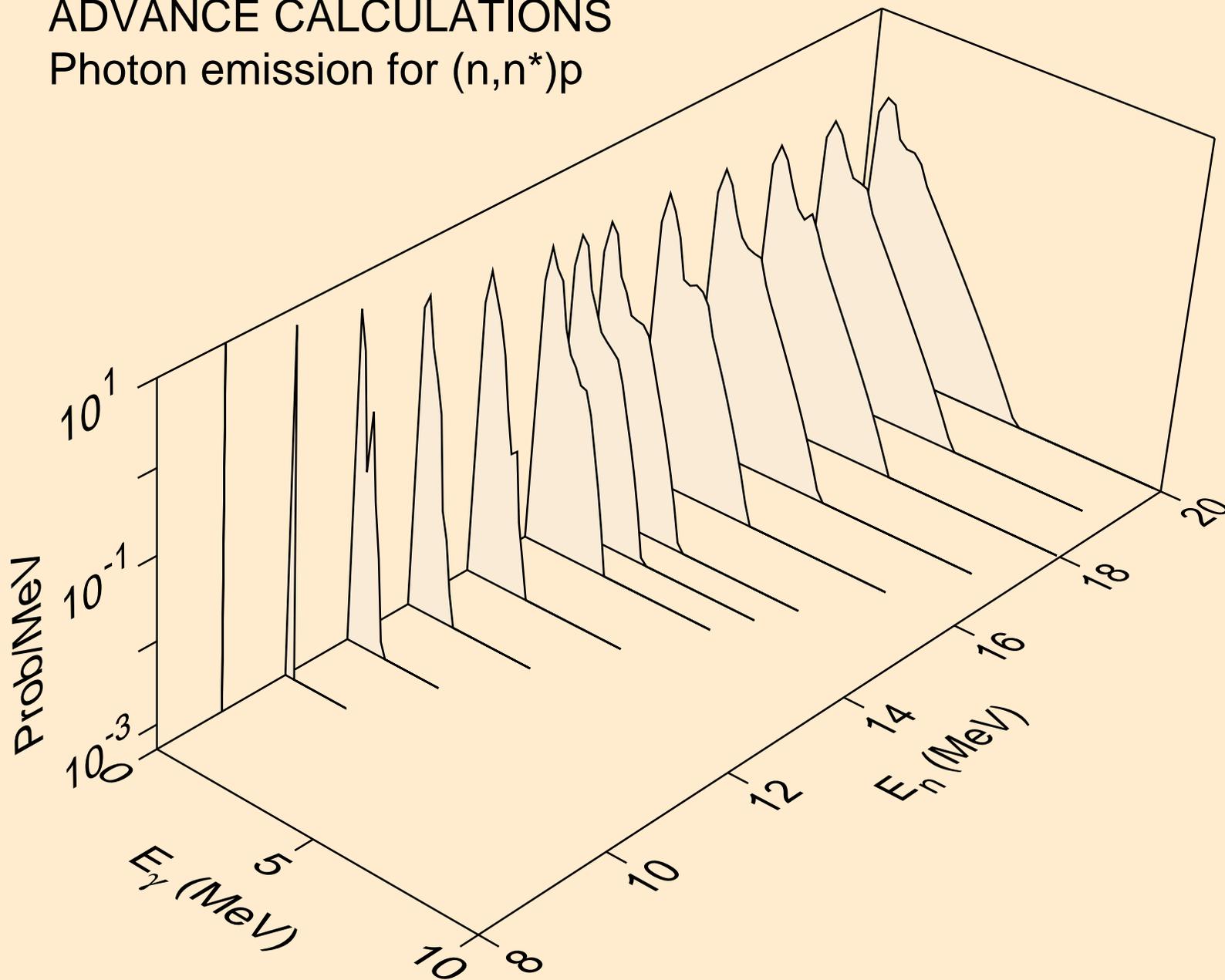
# ADVANCE CALCULATIONS

## Photon emission for (n,2n) $\alpha$



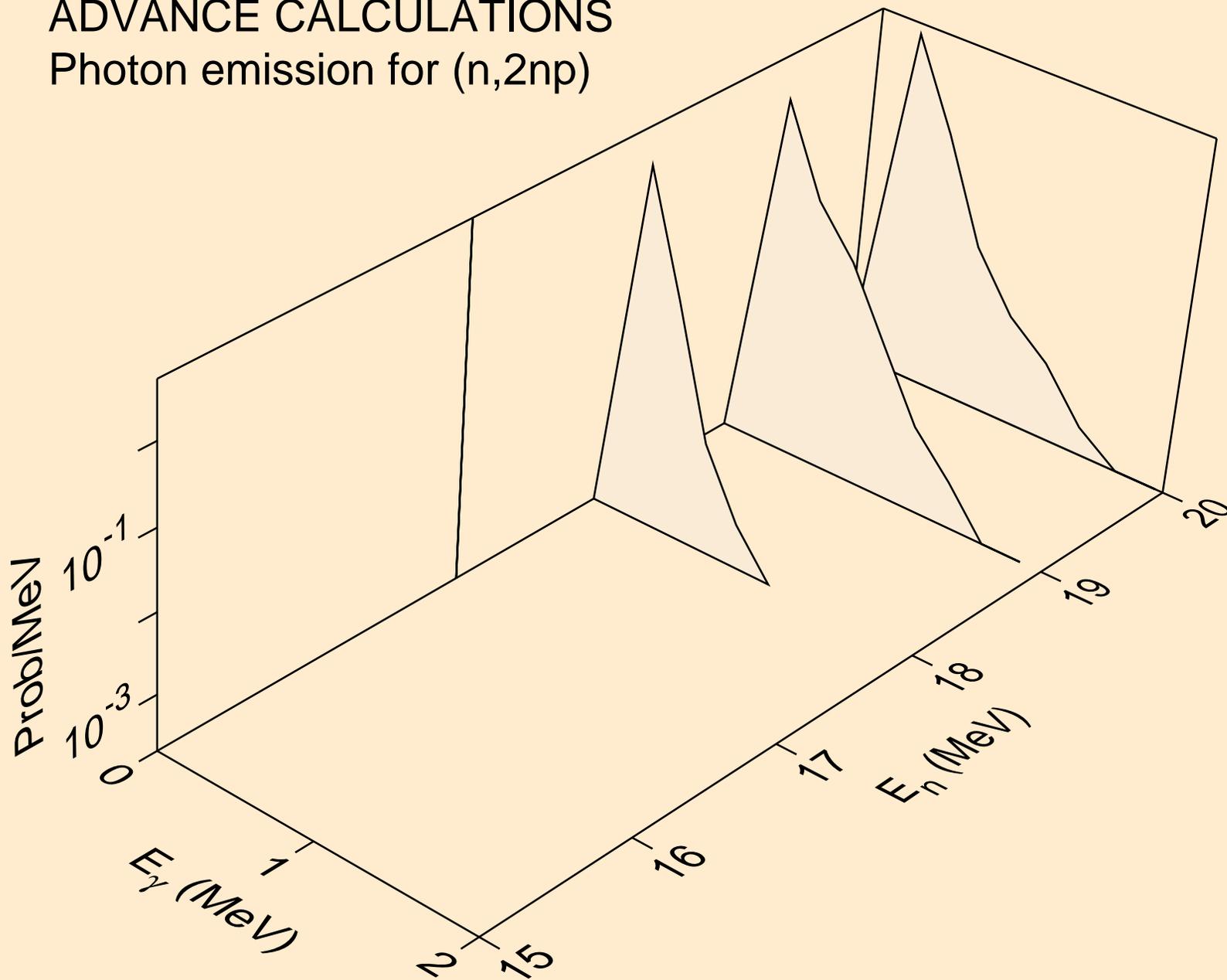
# ADVANCE CALCULATIONS

Photon emission for  $(n,n^*)p$



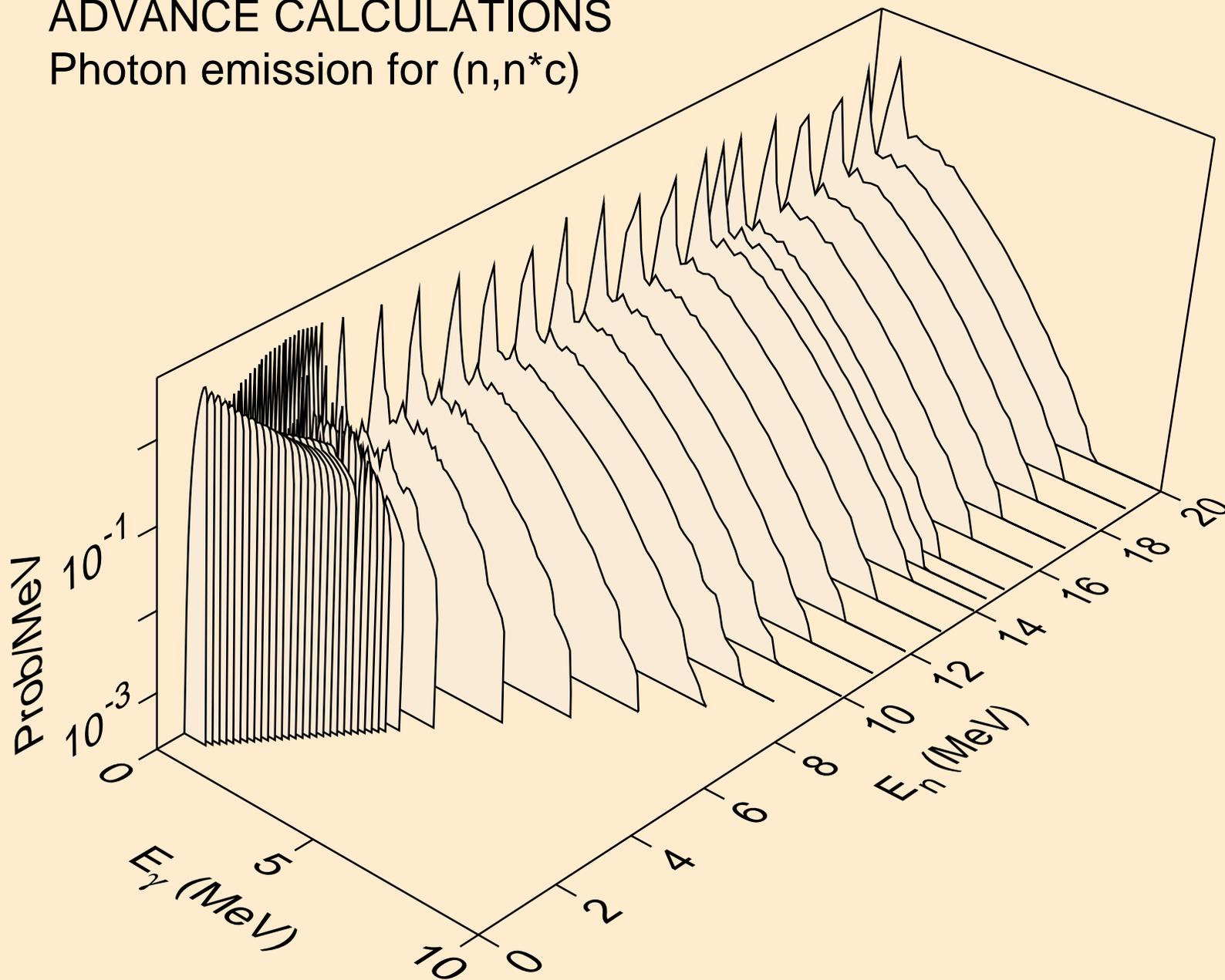
# ADVANCE CALCULATIONS

## Photon emission for (n,2np)



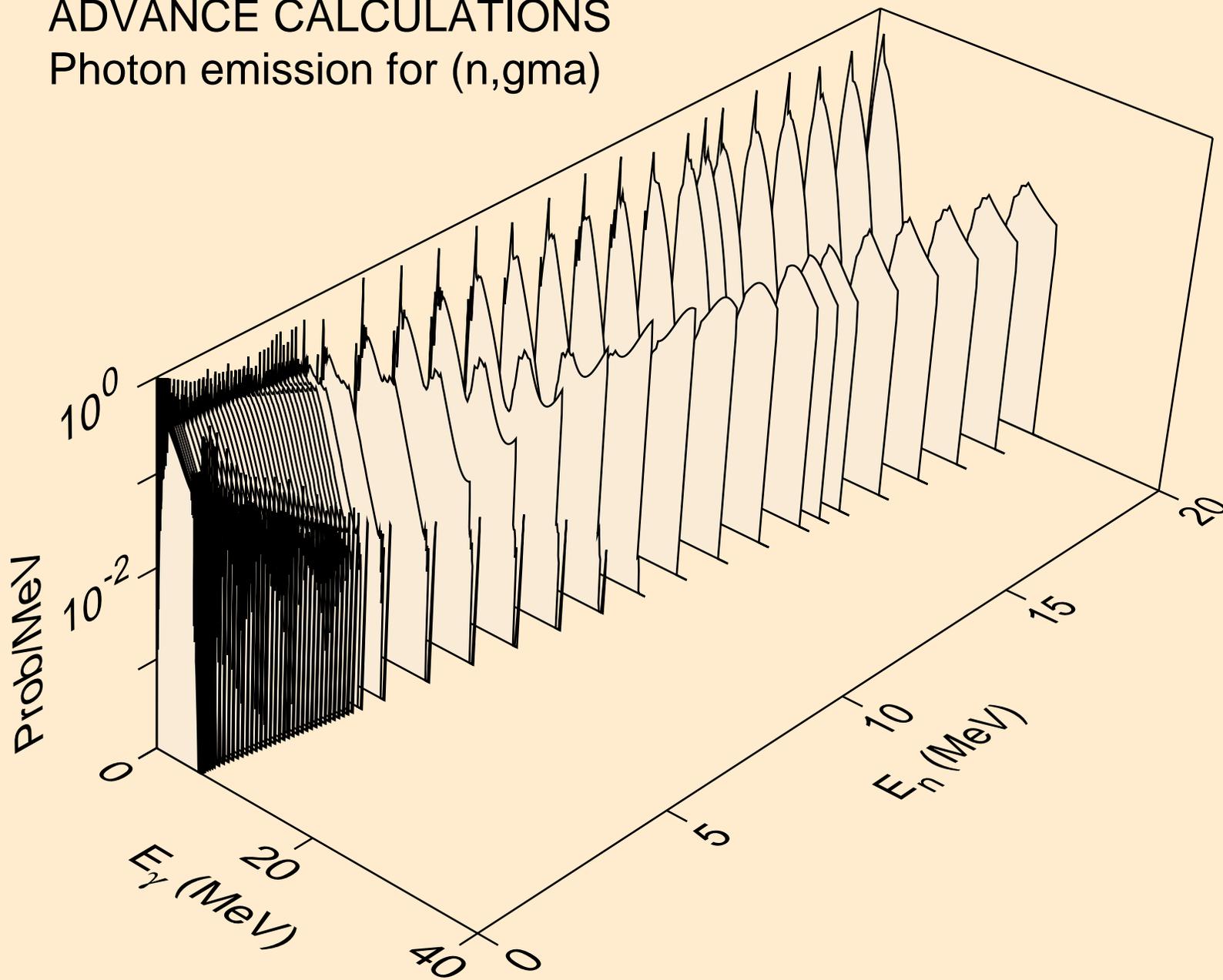
# ADVANCE CALCULATIONS

Photon emission for (n,n\*c)



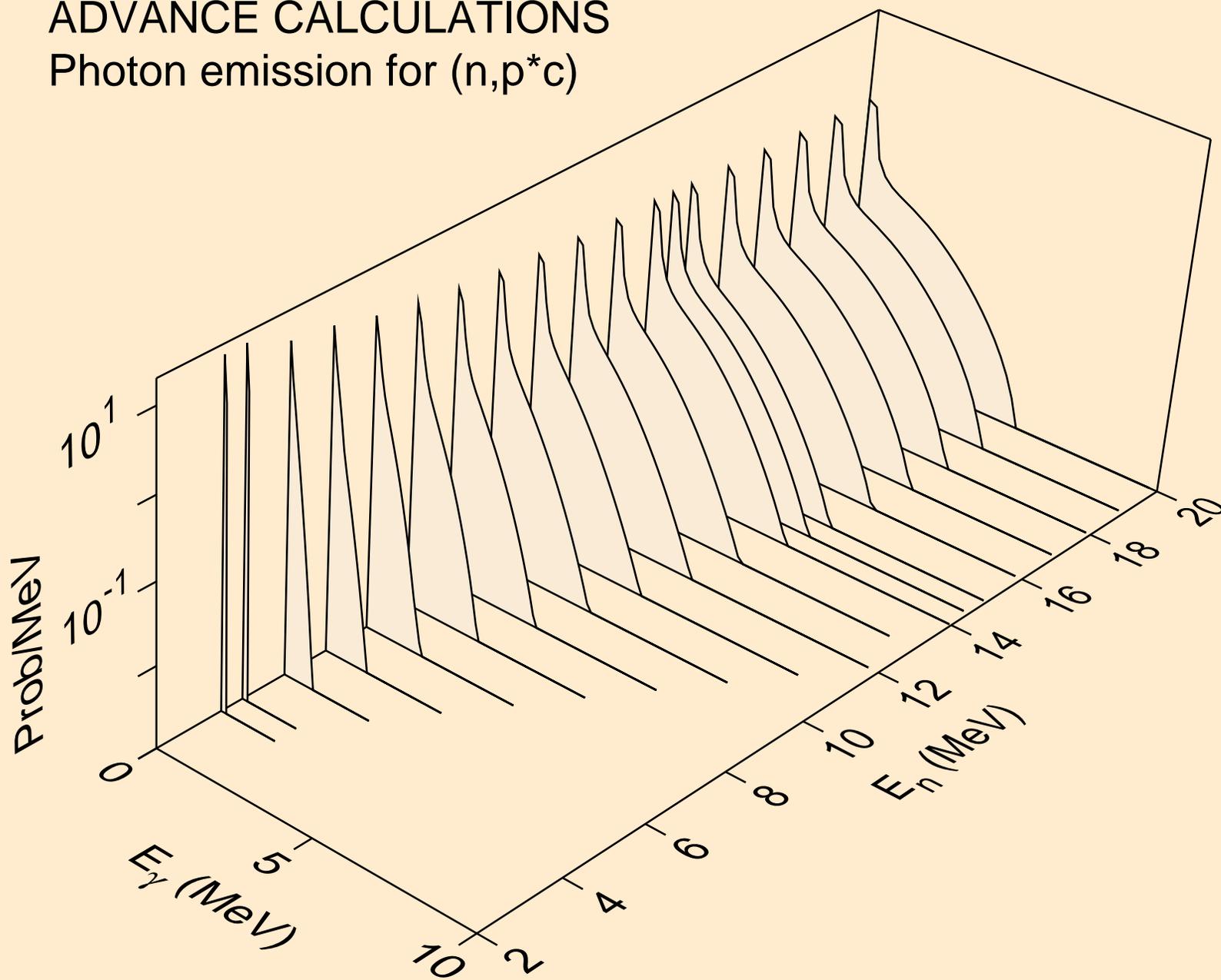
# ADVANCE CALCULATIONS

Photon emission for (n,gma)



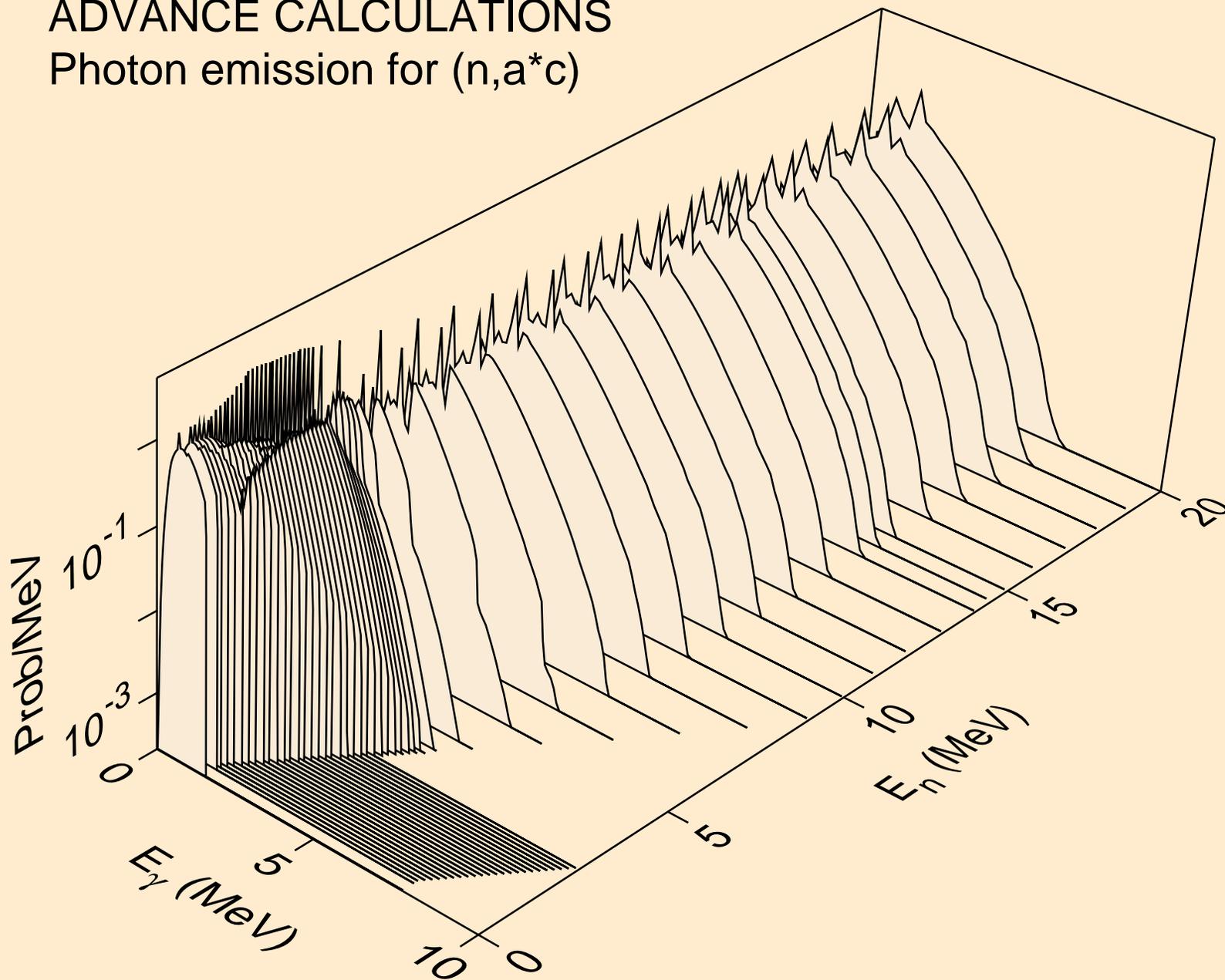
# ADVANCE CALCULATIONS

Photon emission for (n,p\*c)



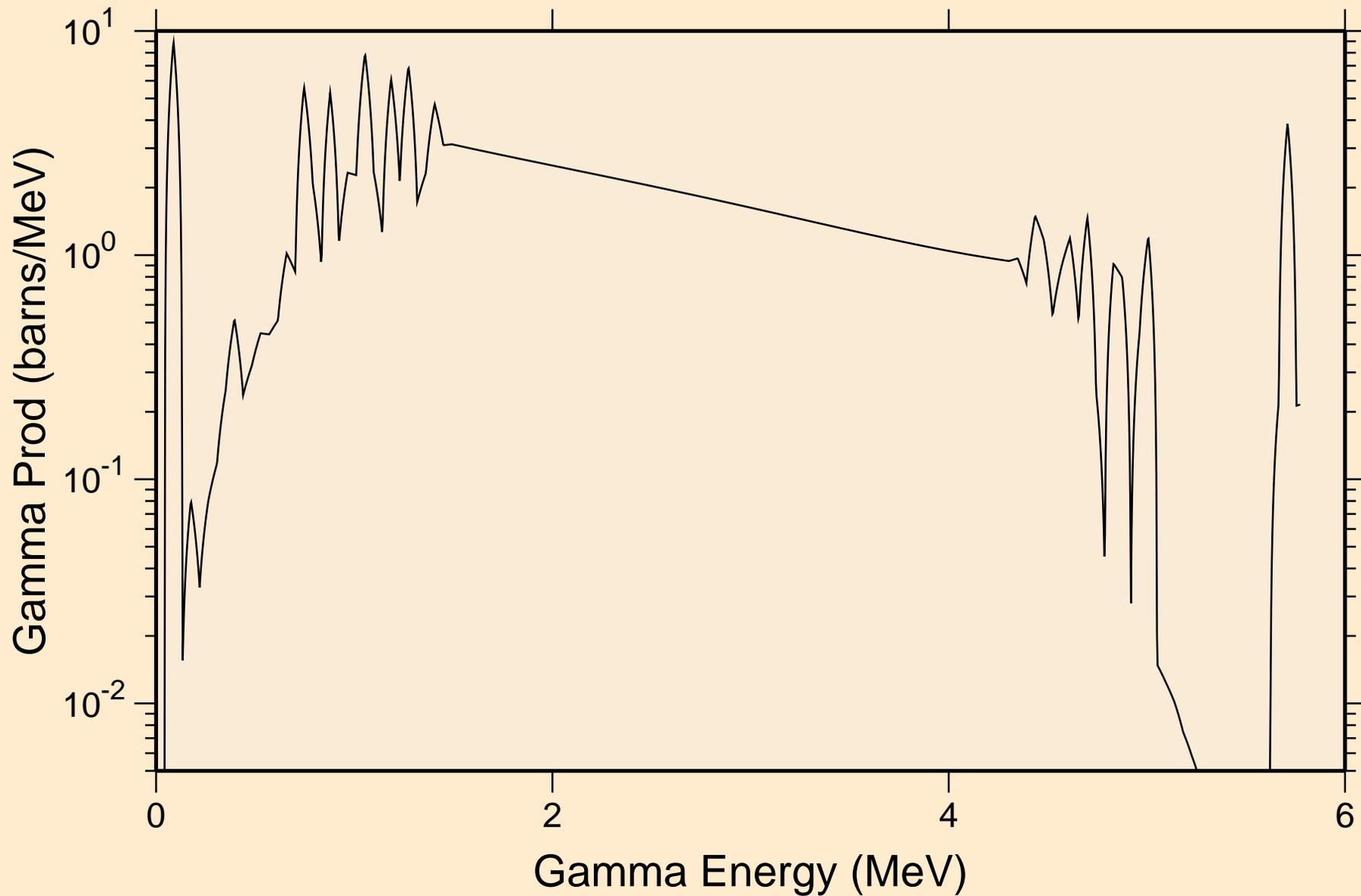
# ADVANCE CALCULATIONS

Photon emission for (n,a\*c)



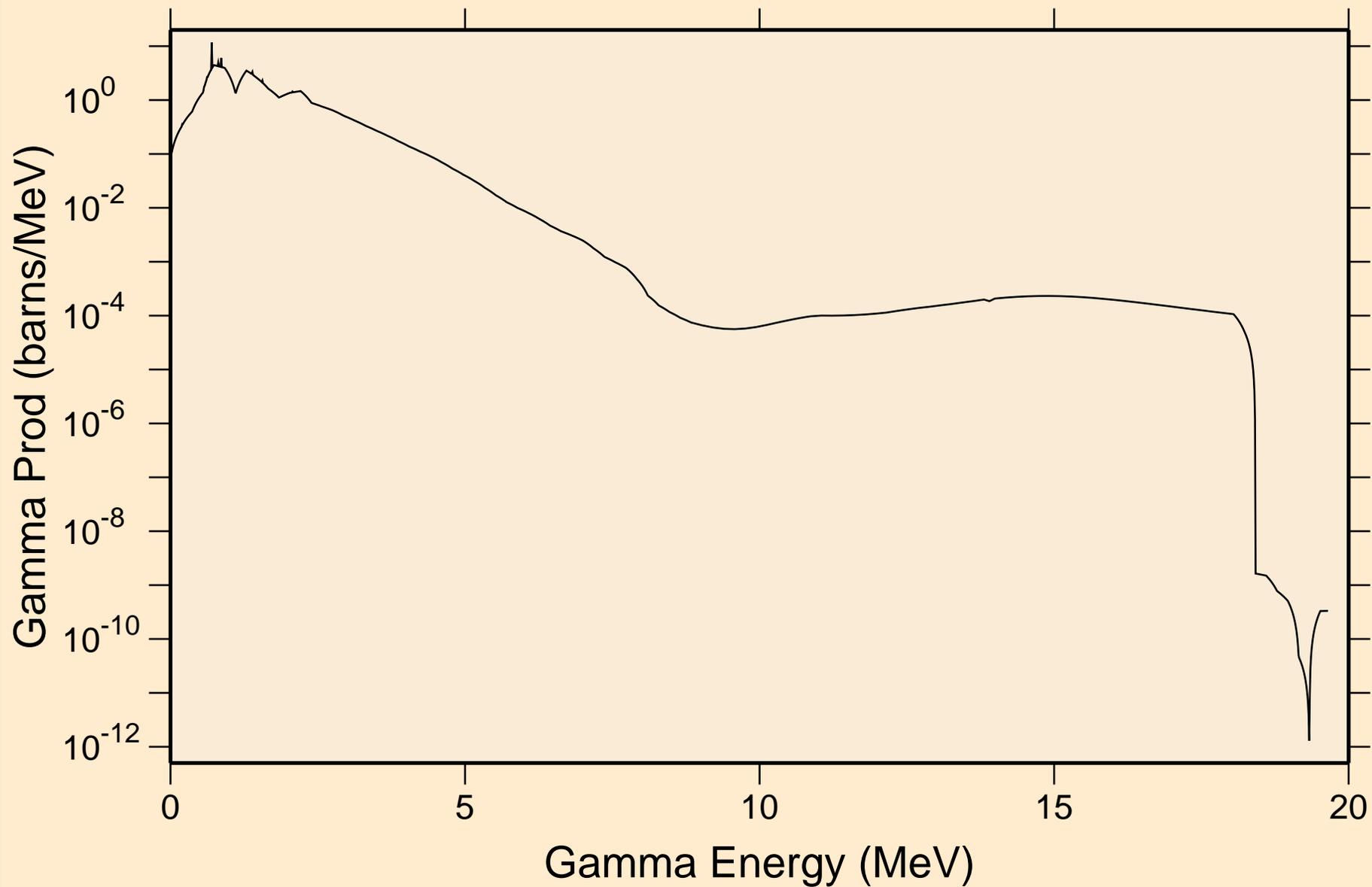
# ADVANCE CALCULATIONS

## thermal capture photon spectrum



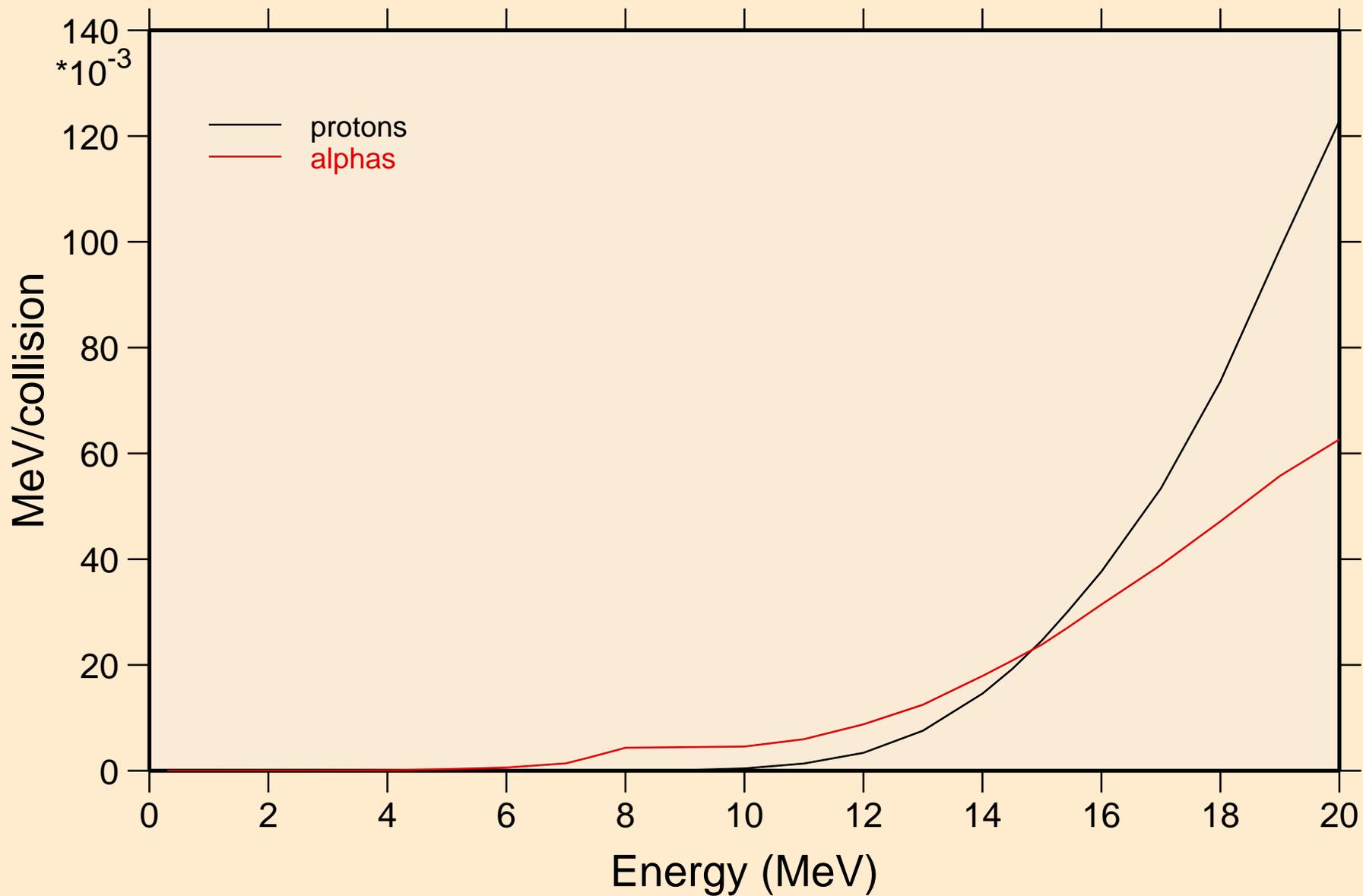
# ADVANCE CALCULATIONS

## 14 MeV photon spectrum



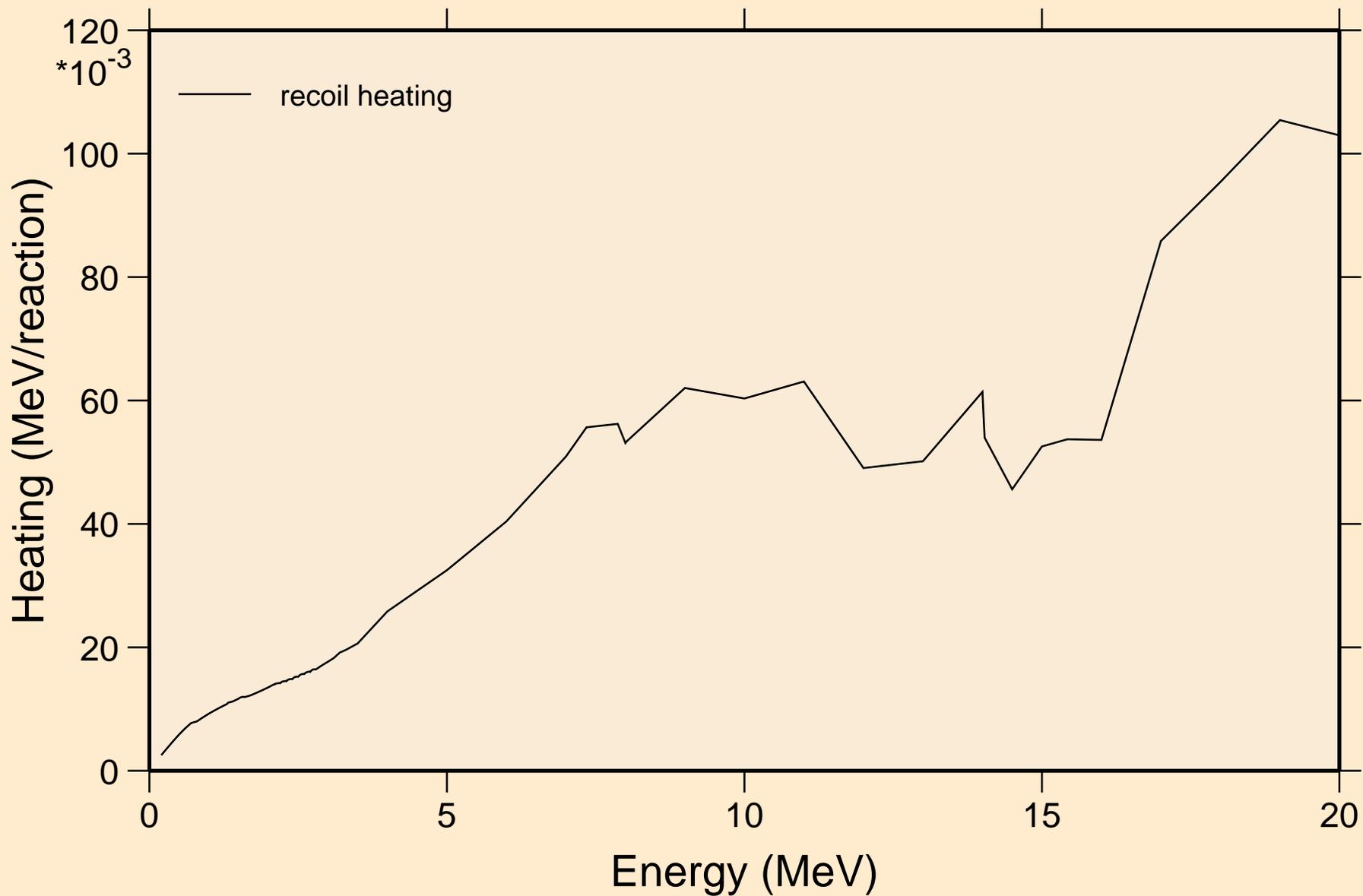
# ADVANCE CALCULATIONS

## Particle heating contributions



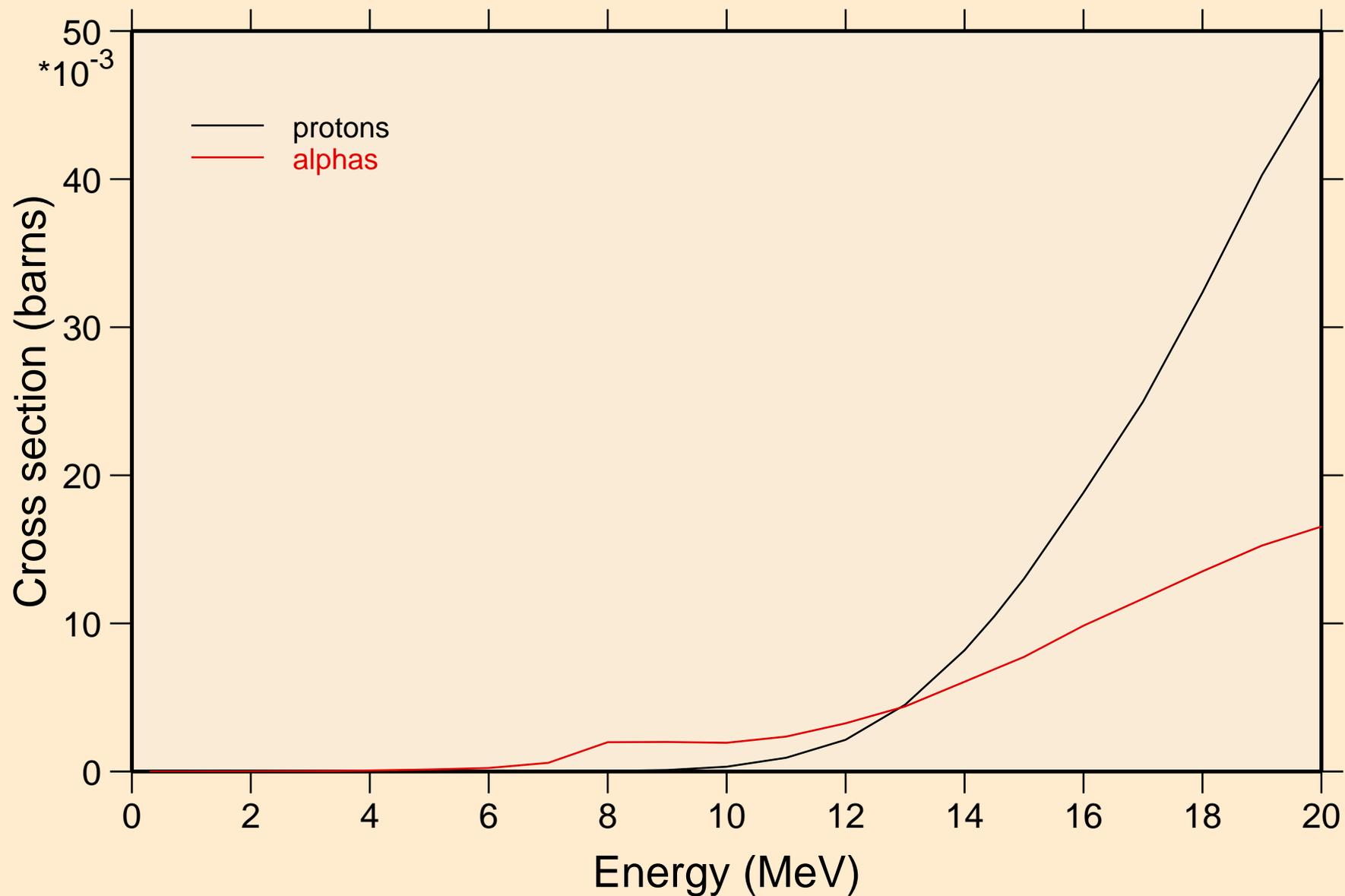
# ADVANCE CALCULATIONS

## Recoil Heating



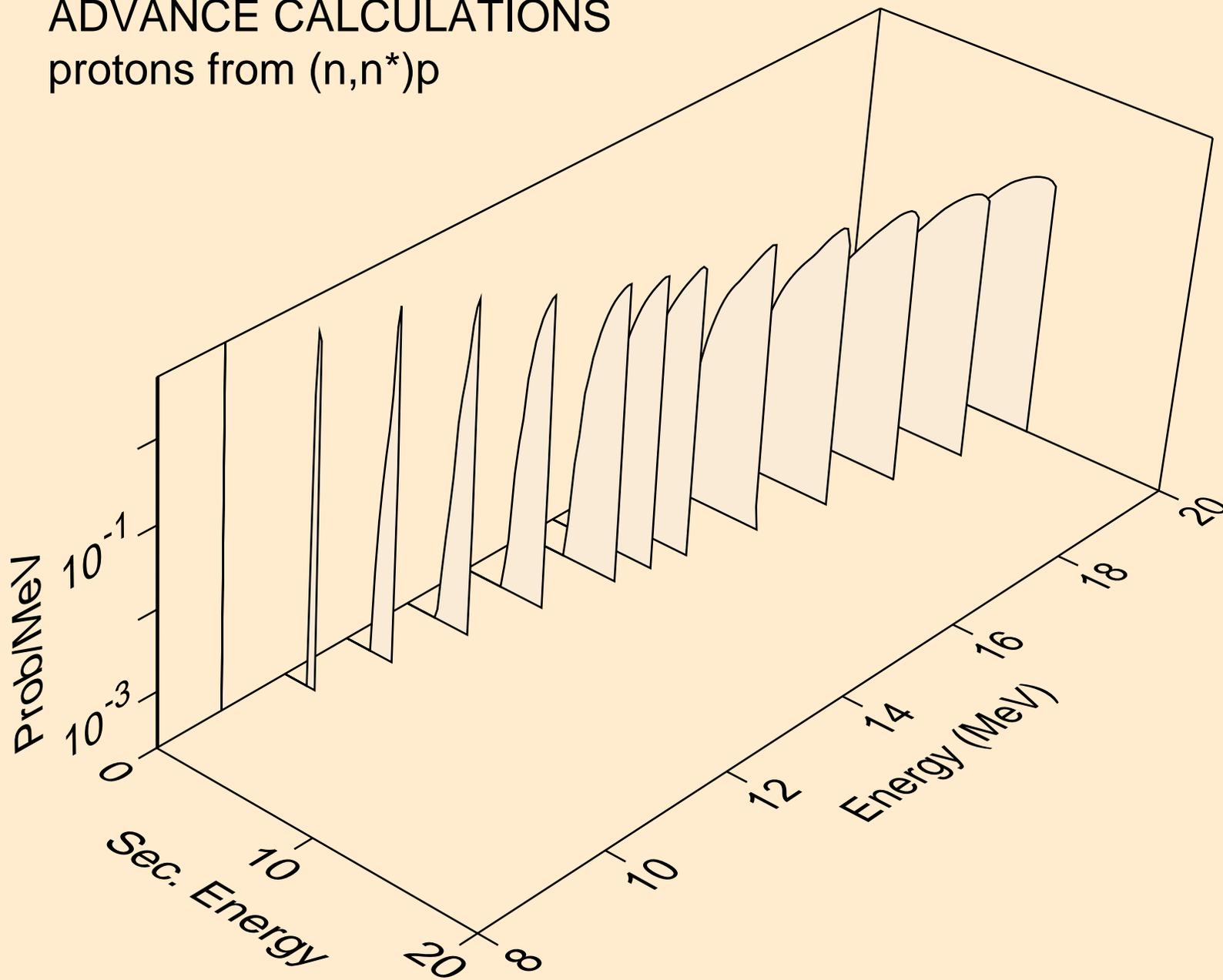
# ADVANCE CALCULATIONS

## Particle production cross sections



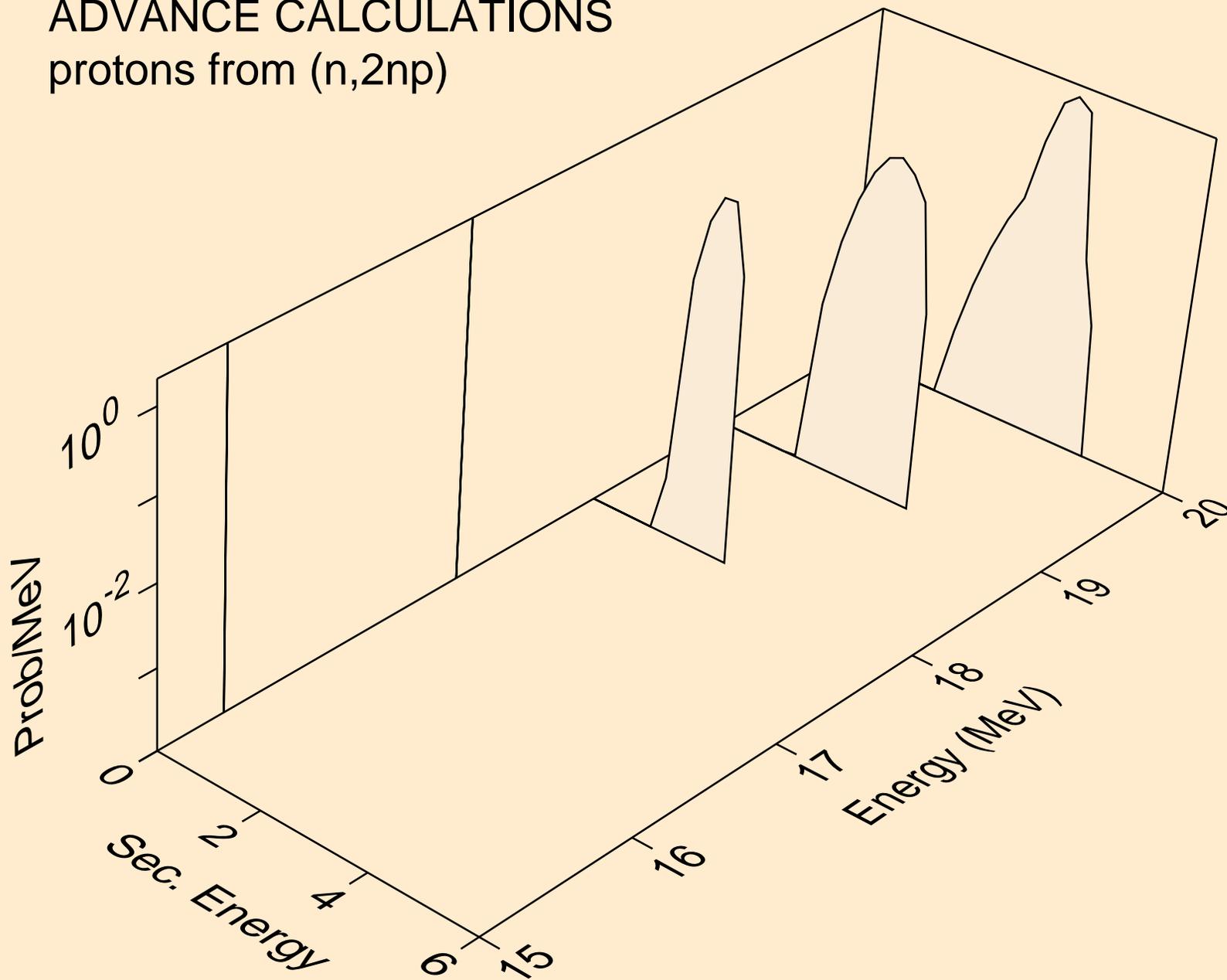
# ADVANCE CALCULATIONS

protons from  $(n,n^*)p$



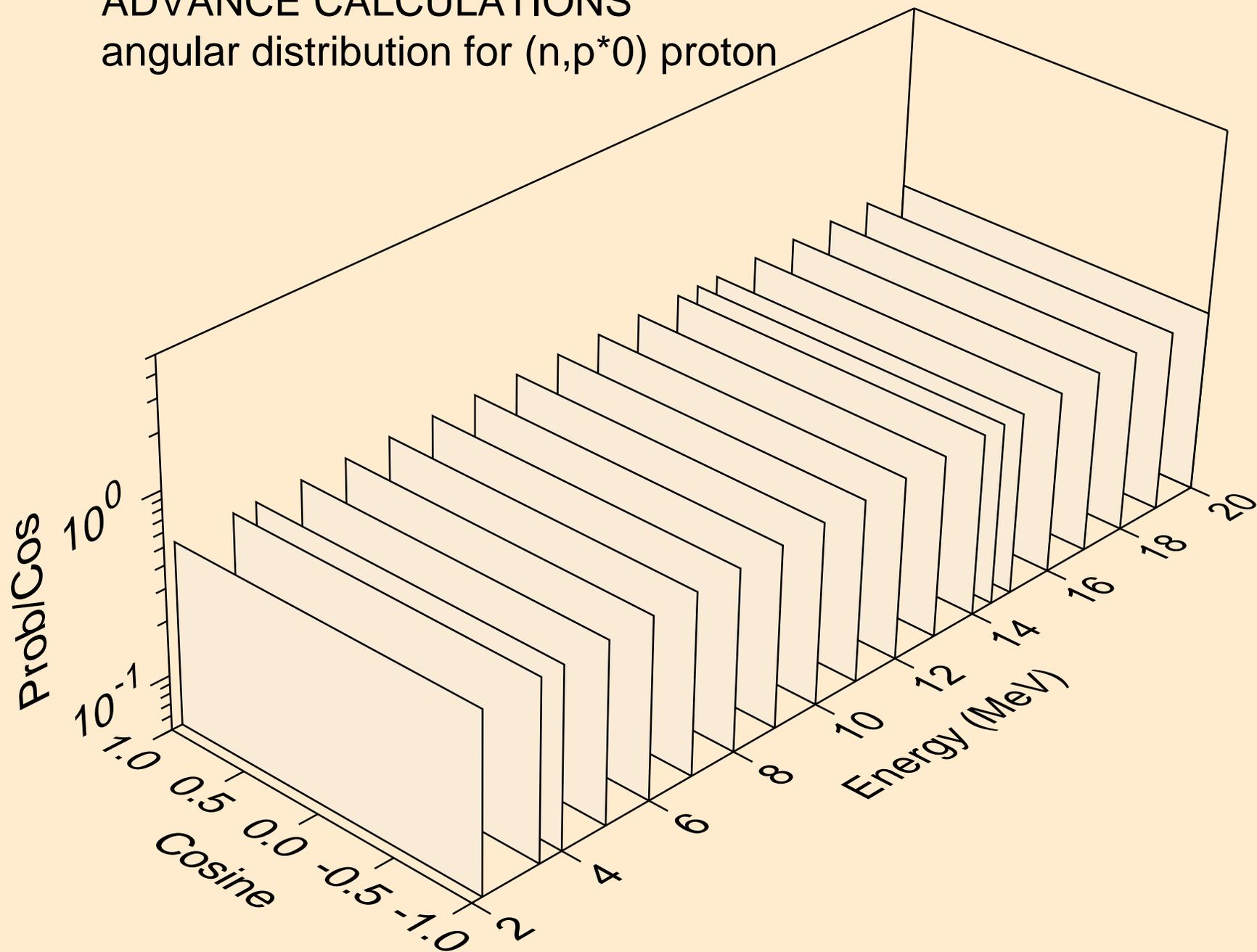
# ADVANCE CALCULATIONS

protons from (n,2np)



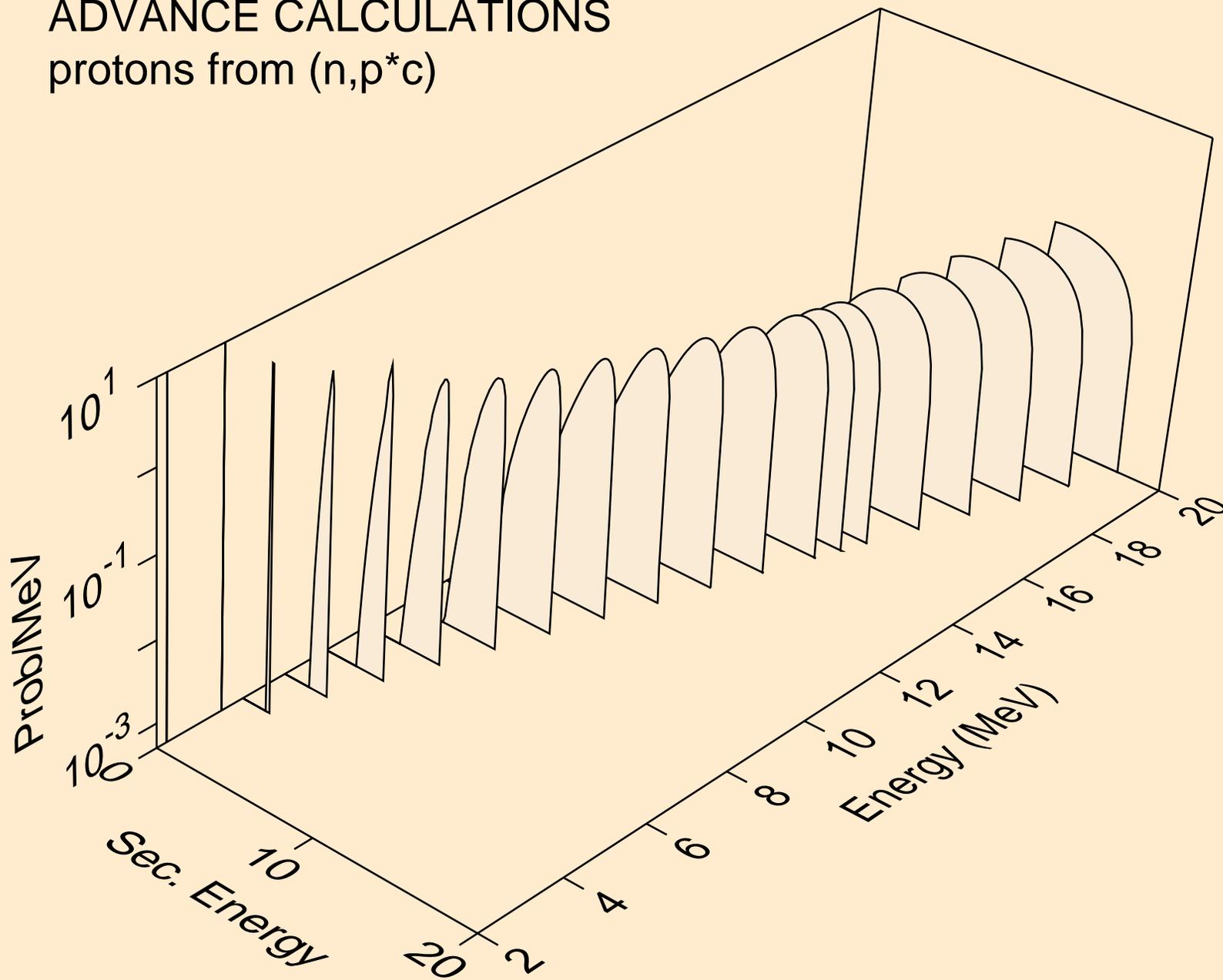
# ADVANCE CALCULATIONS

angular distribution for (n,p\*0) proton



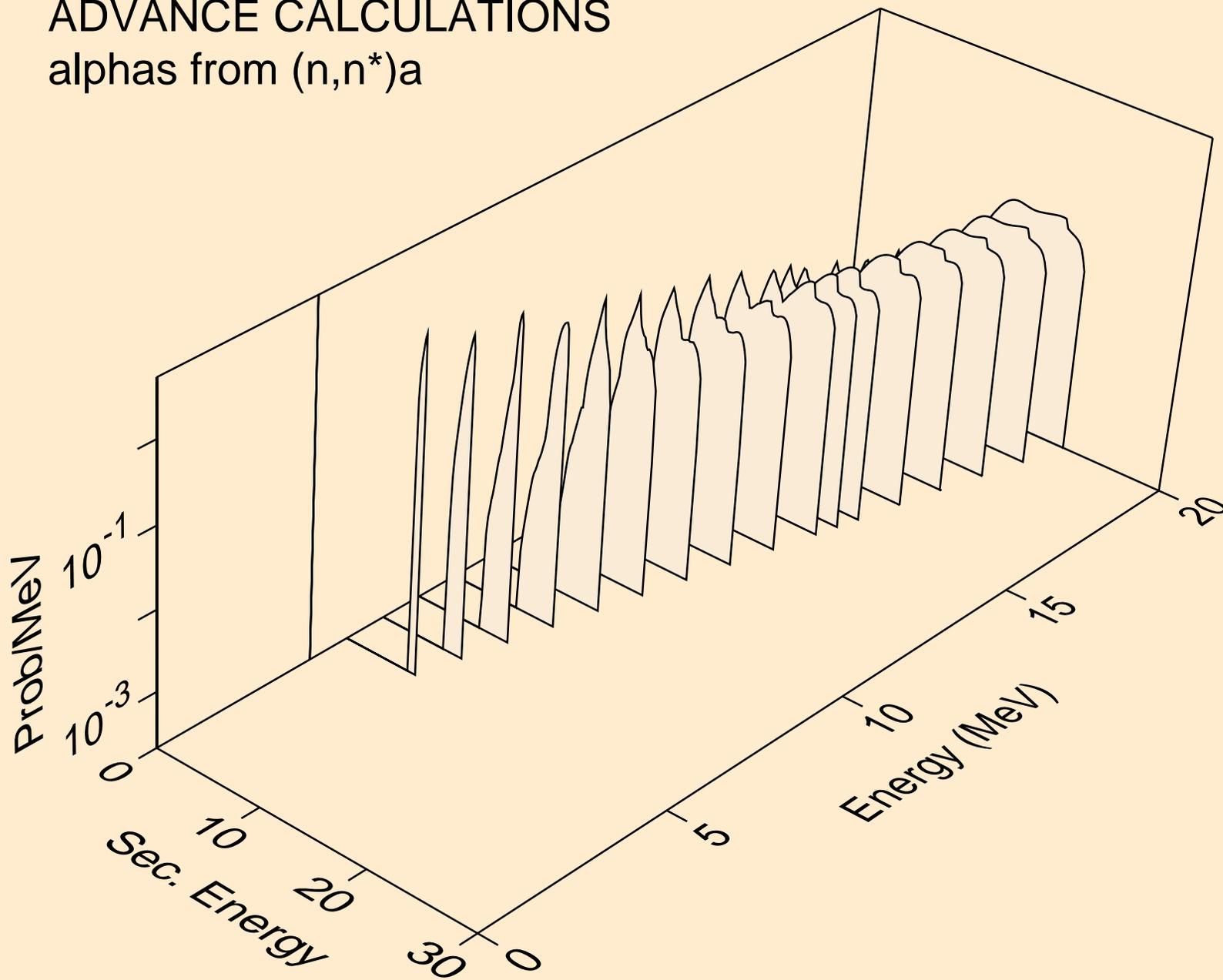
# ADVANCE CALCULATIONS

protons from (n,p\*c)



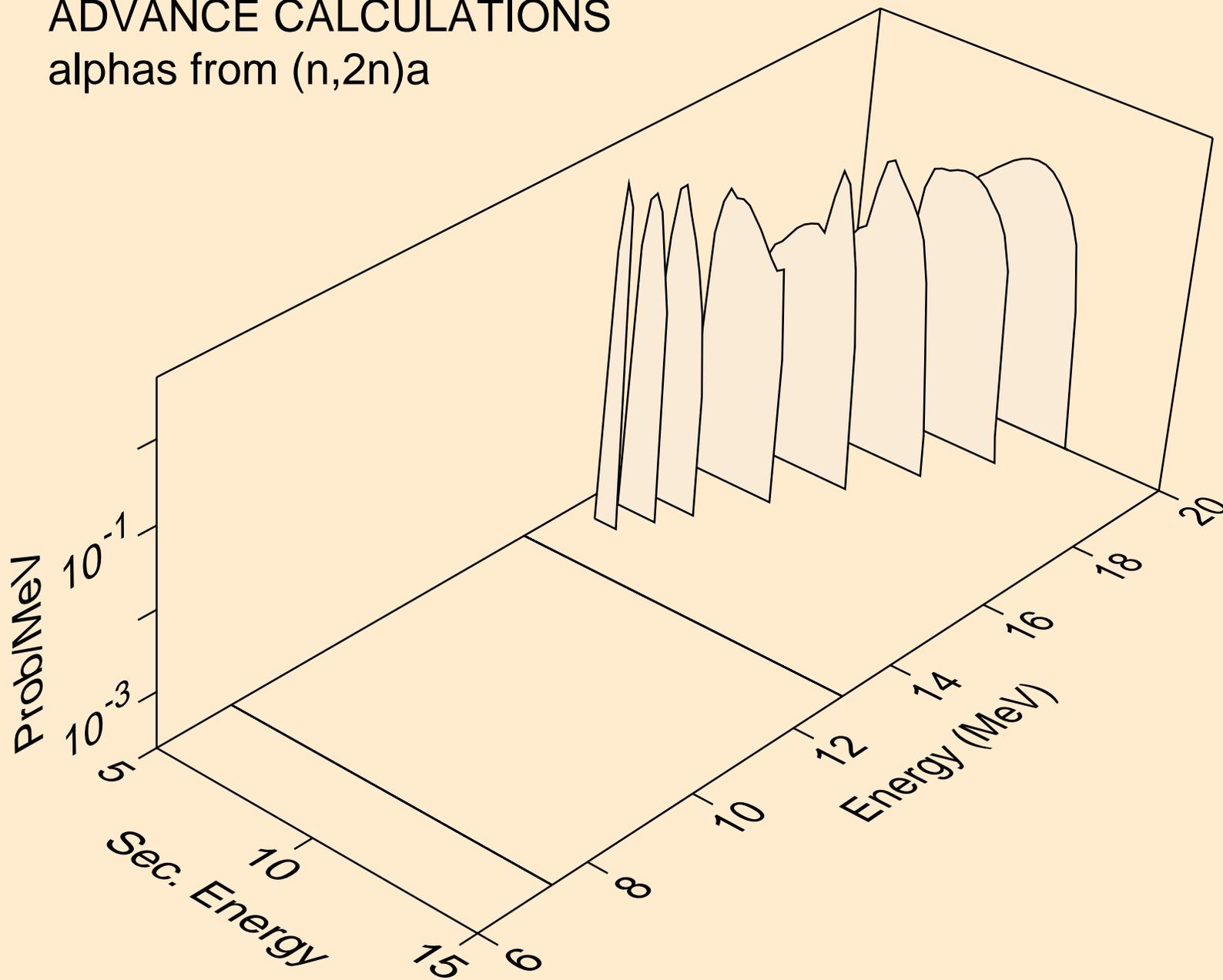
# ADVANCE CALCULATIONS

alphas from (n,n\*)a



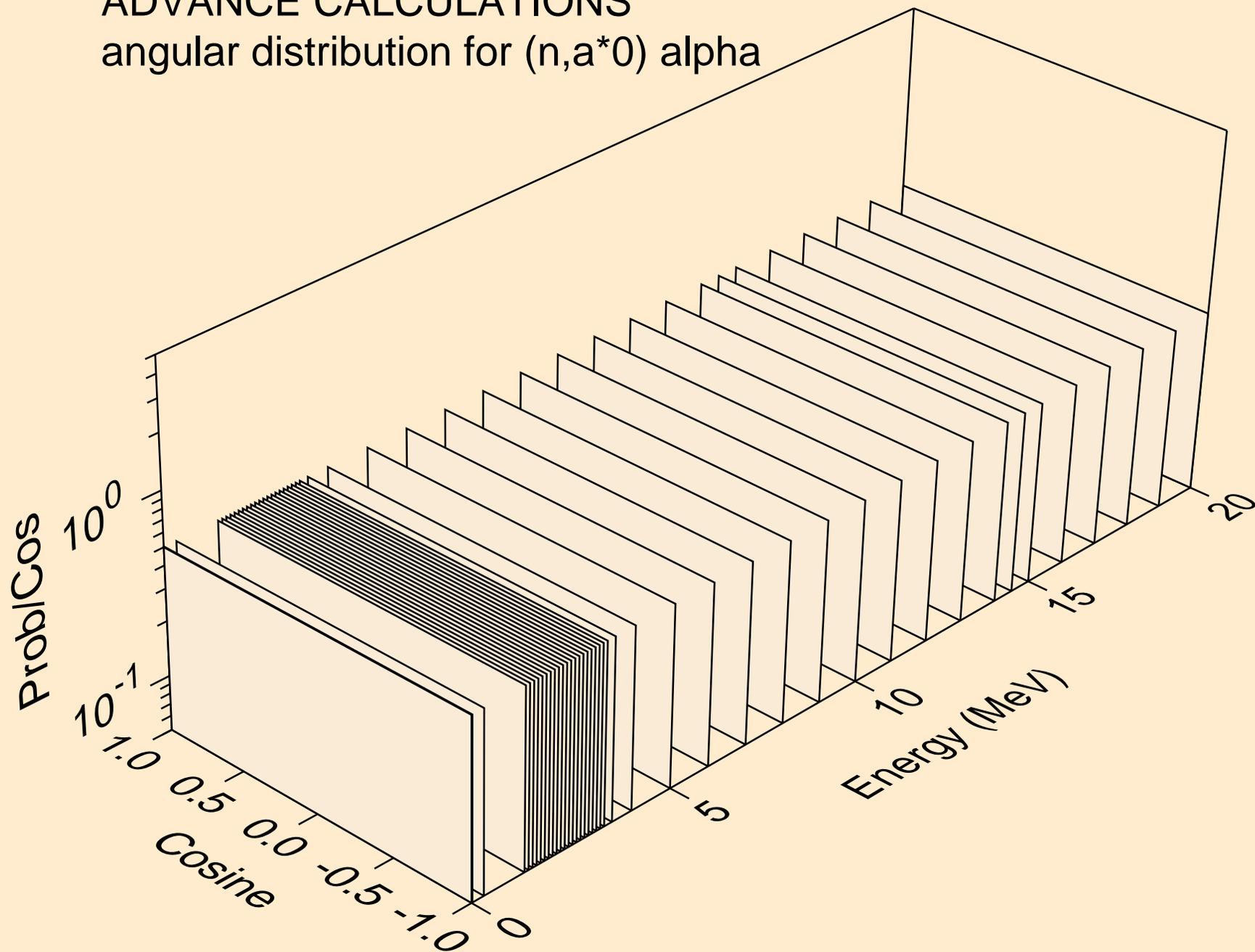
# ADVANCE CALCULATIONS

alphas from (n,2n)a

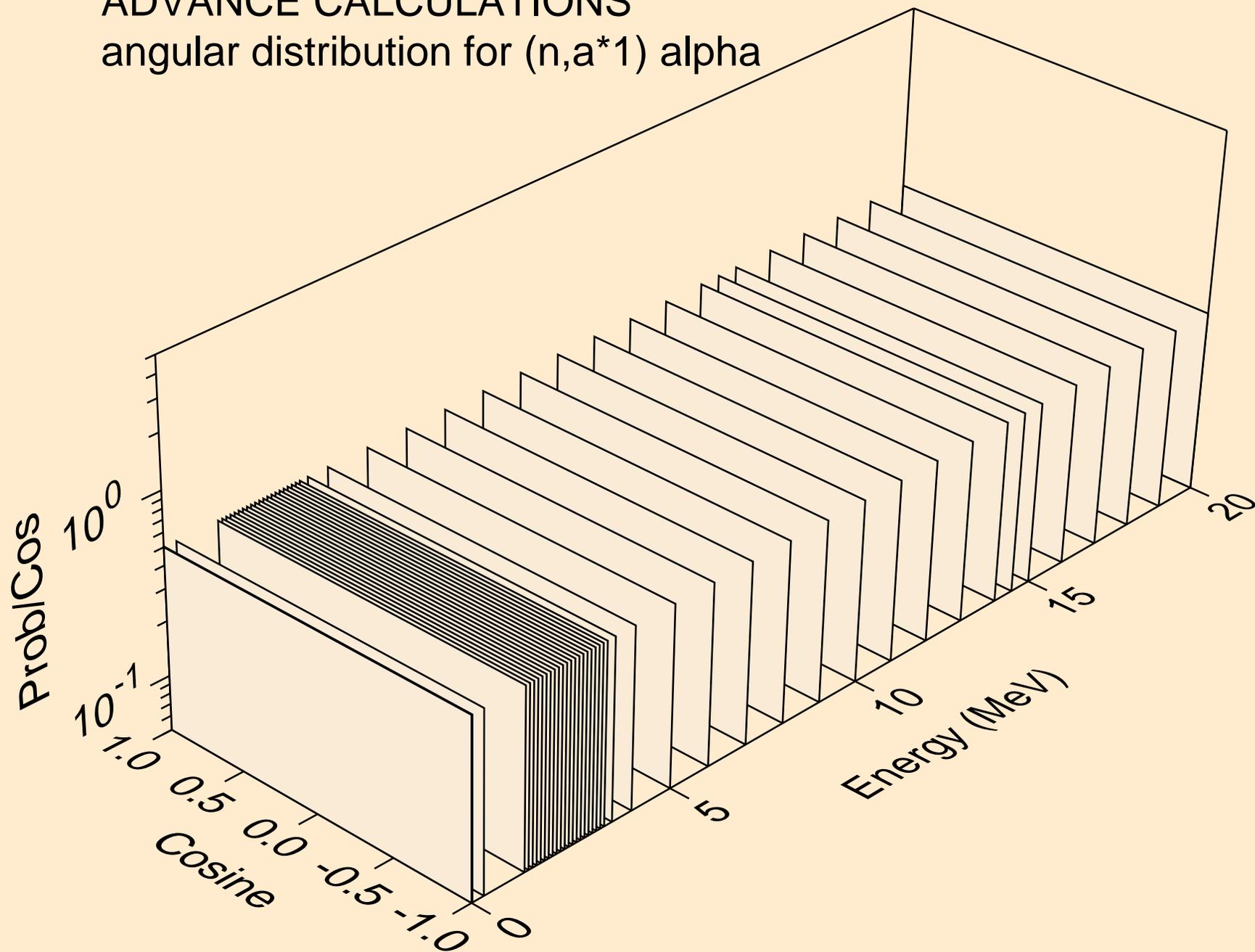


# ADVANCE CALCULATIONS

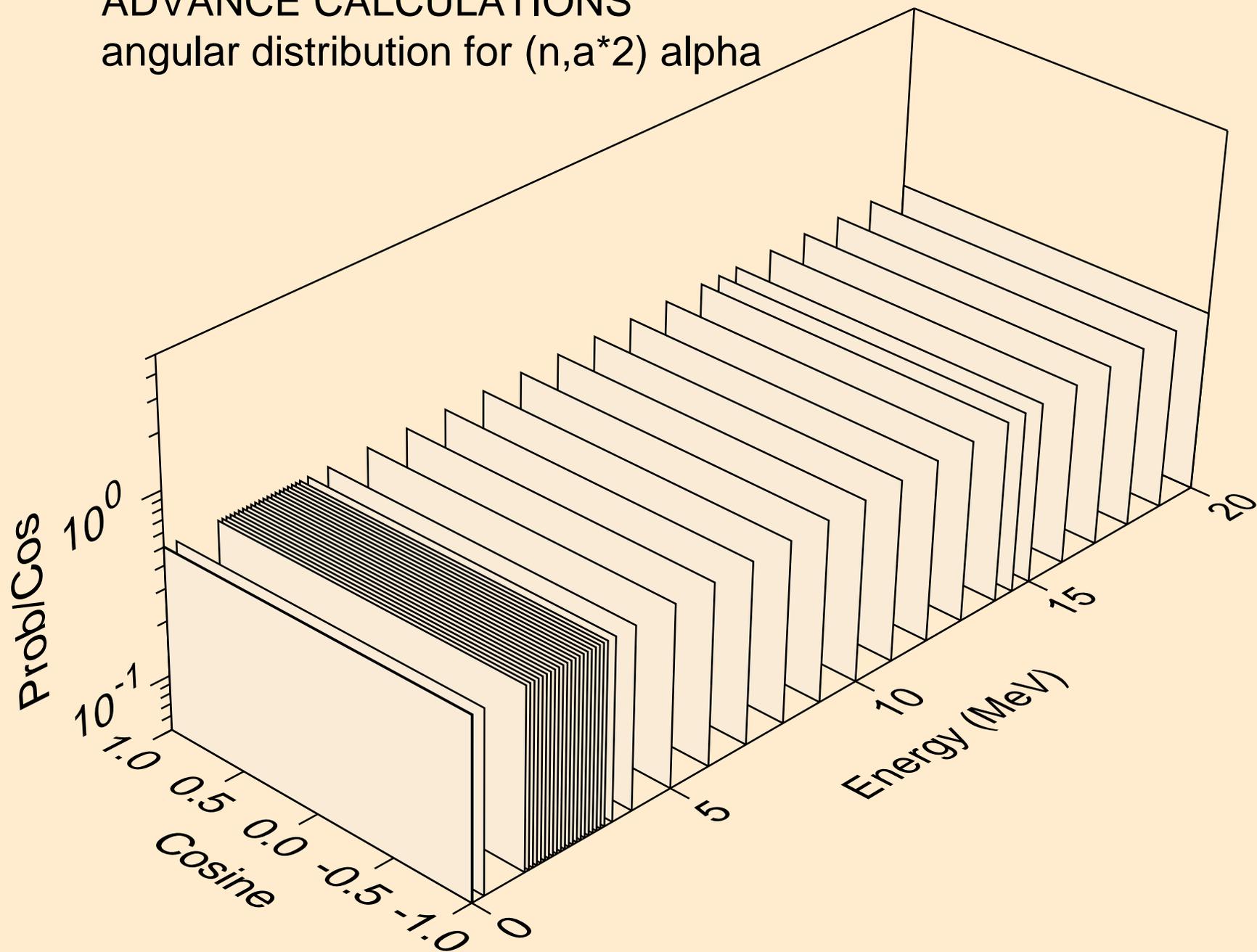
angular distribution for (n, $\alpha$ ) alpha



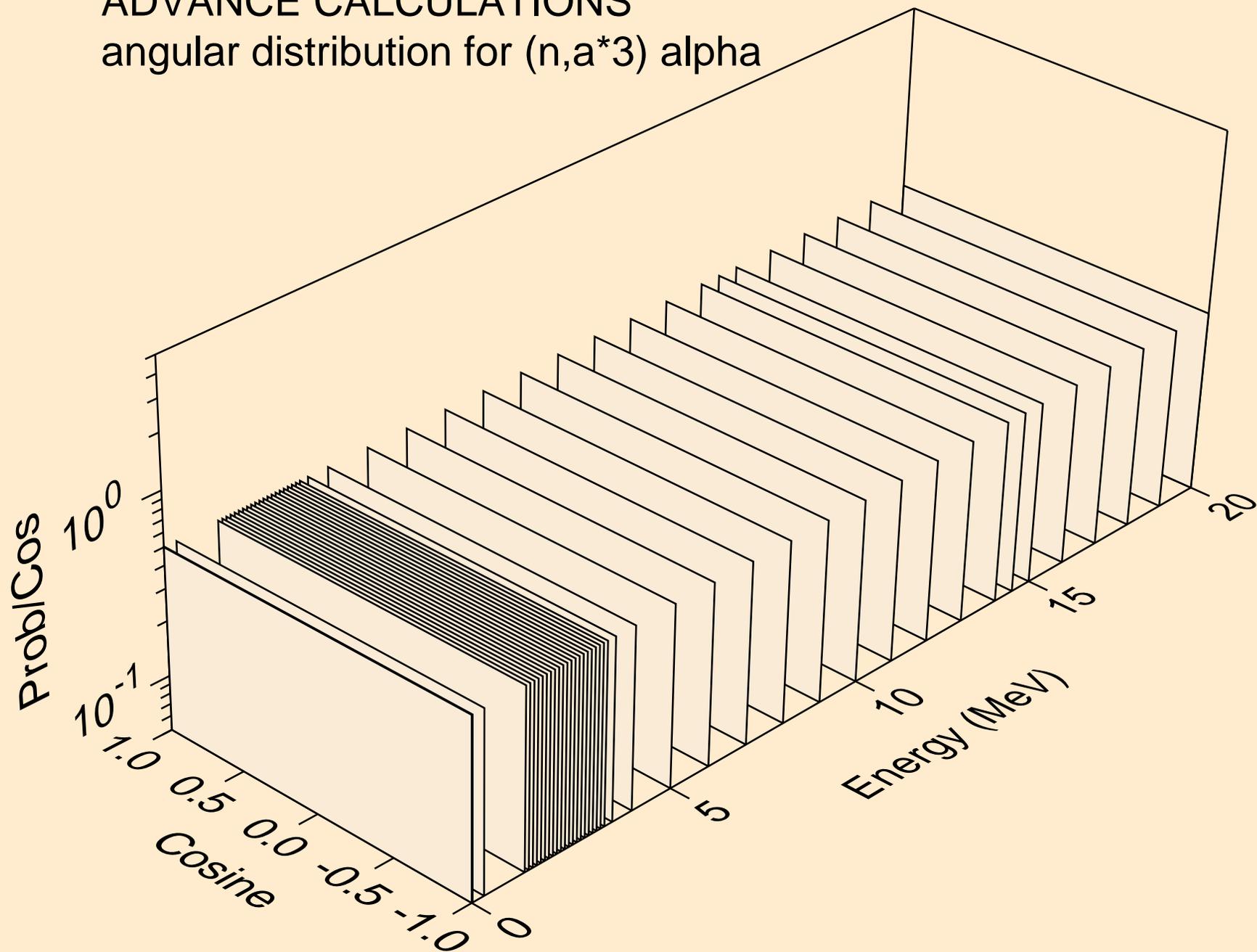
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



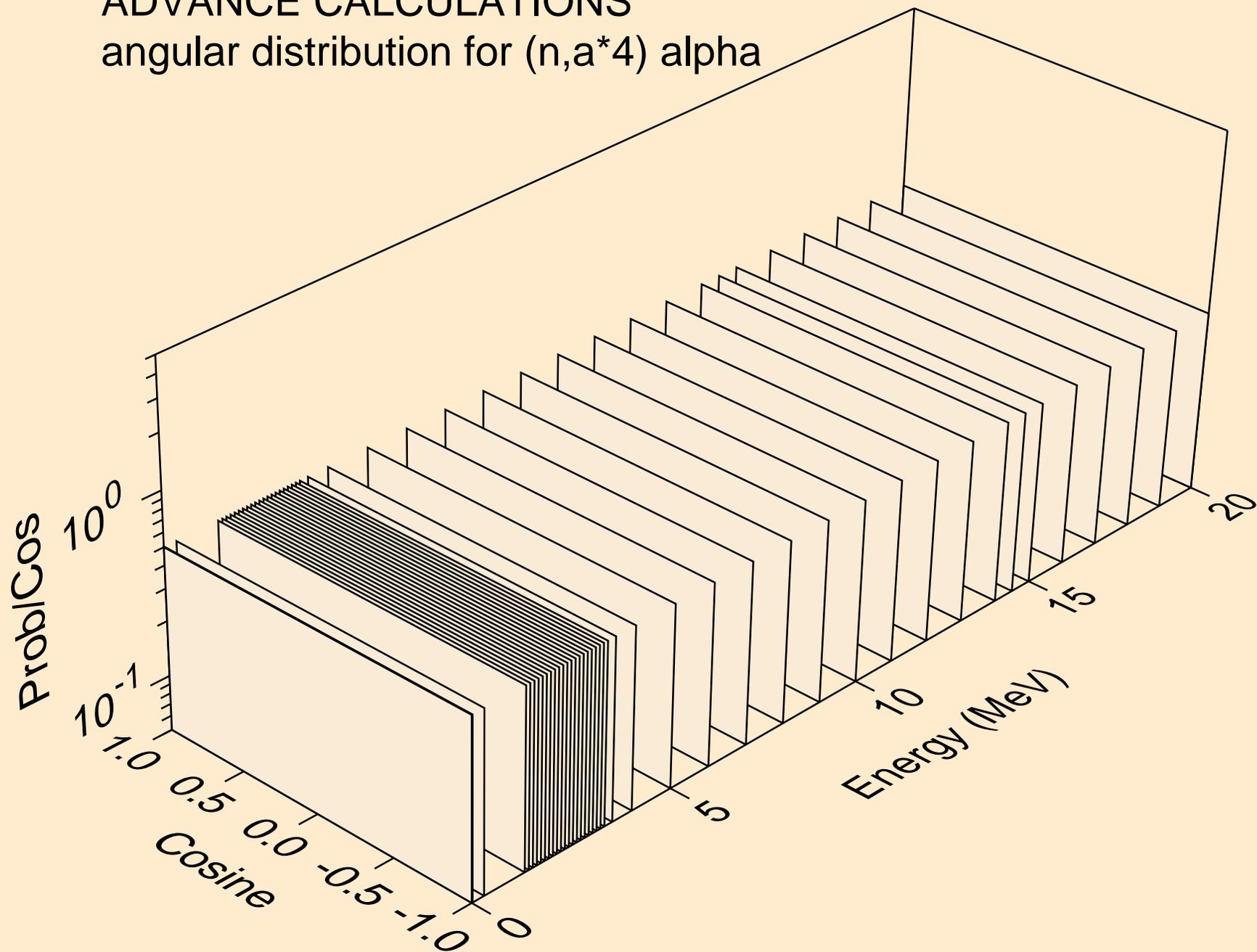
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



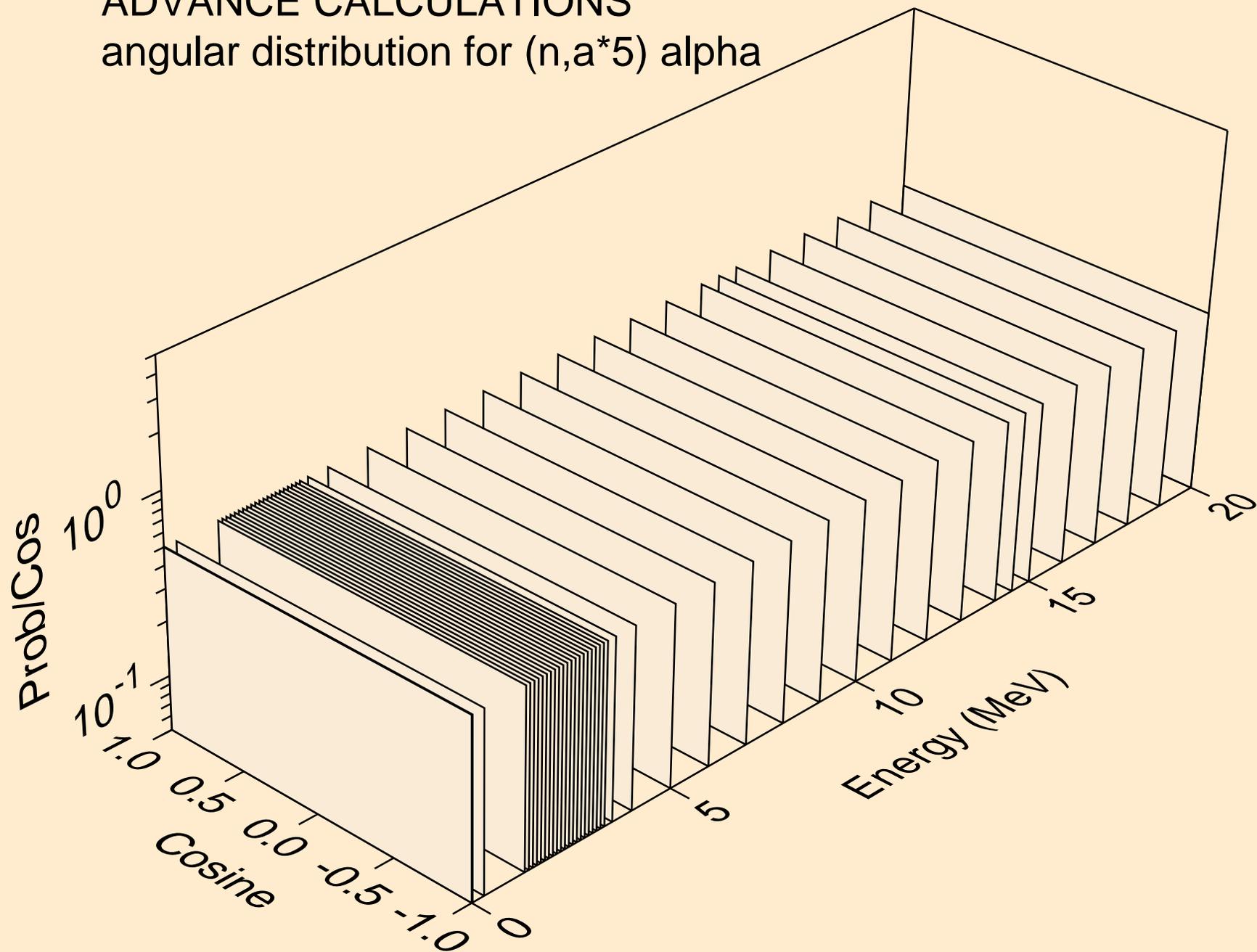
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



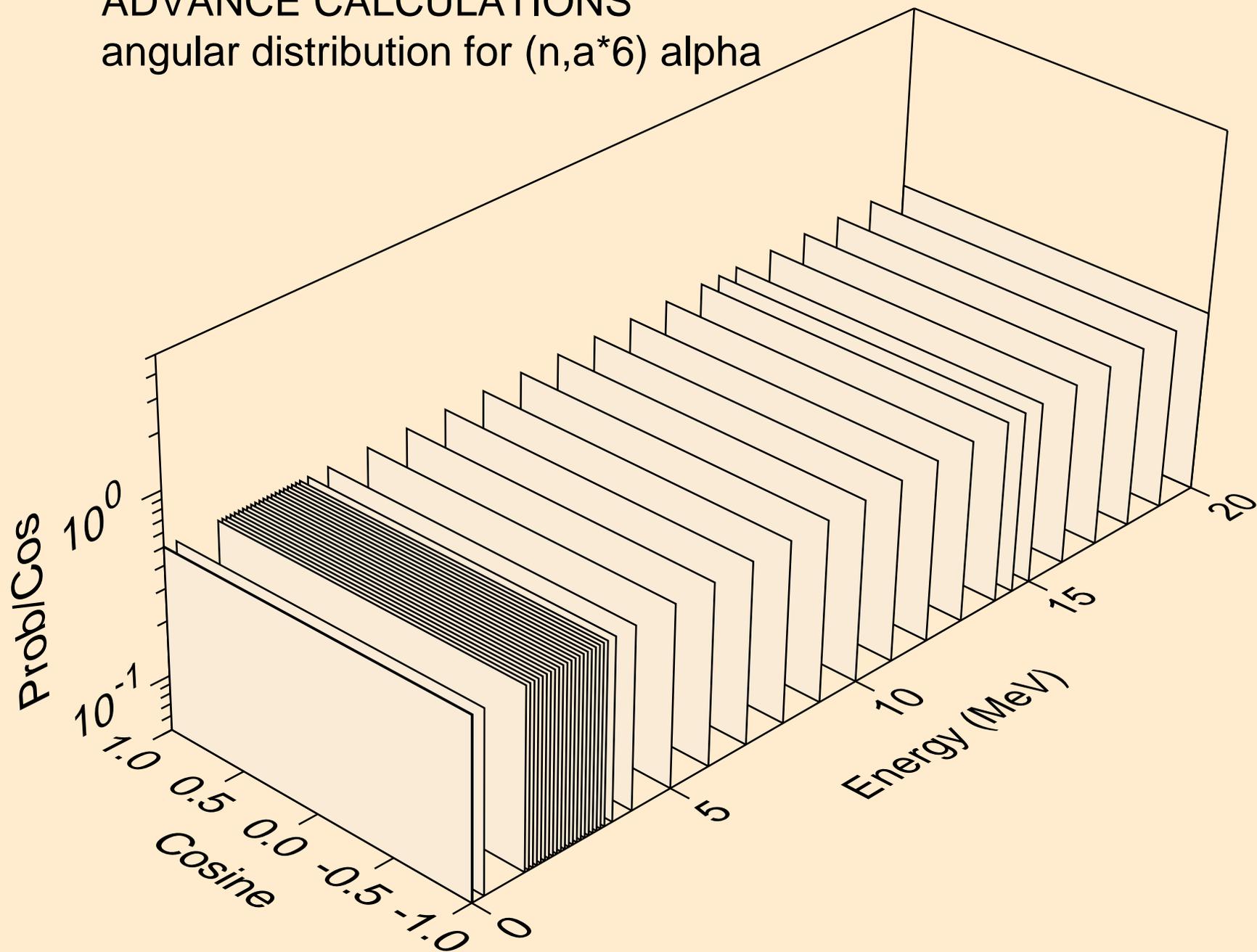
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



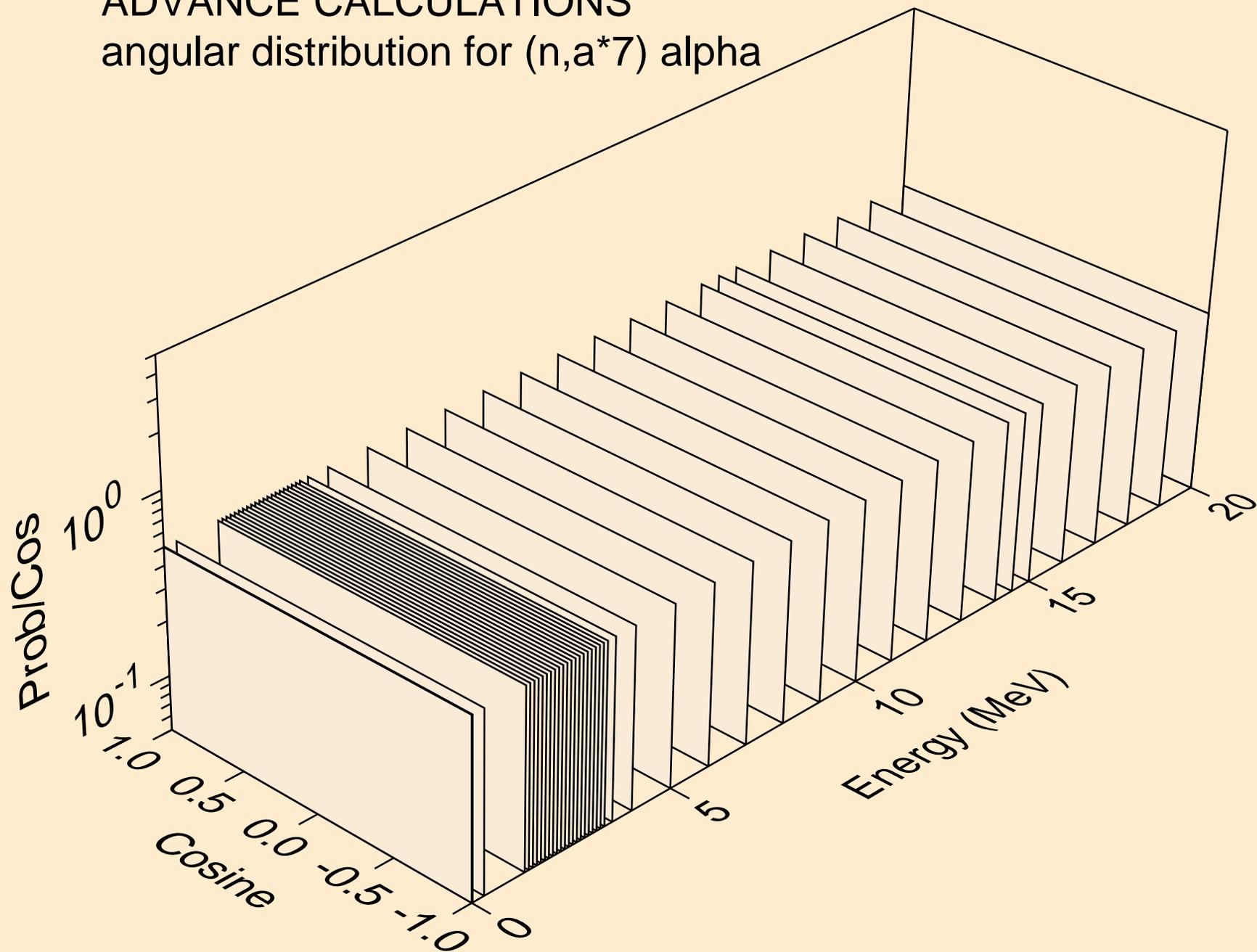
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



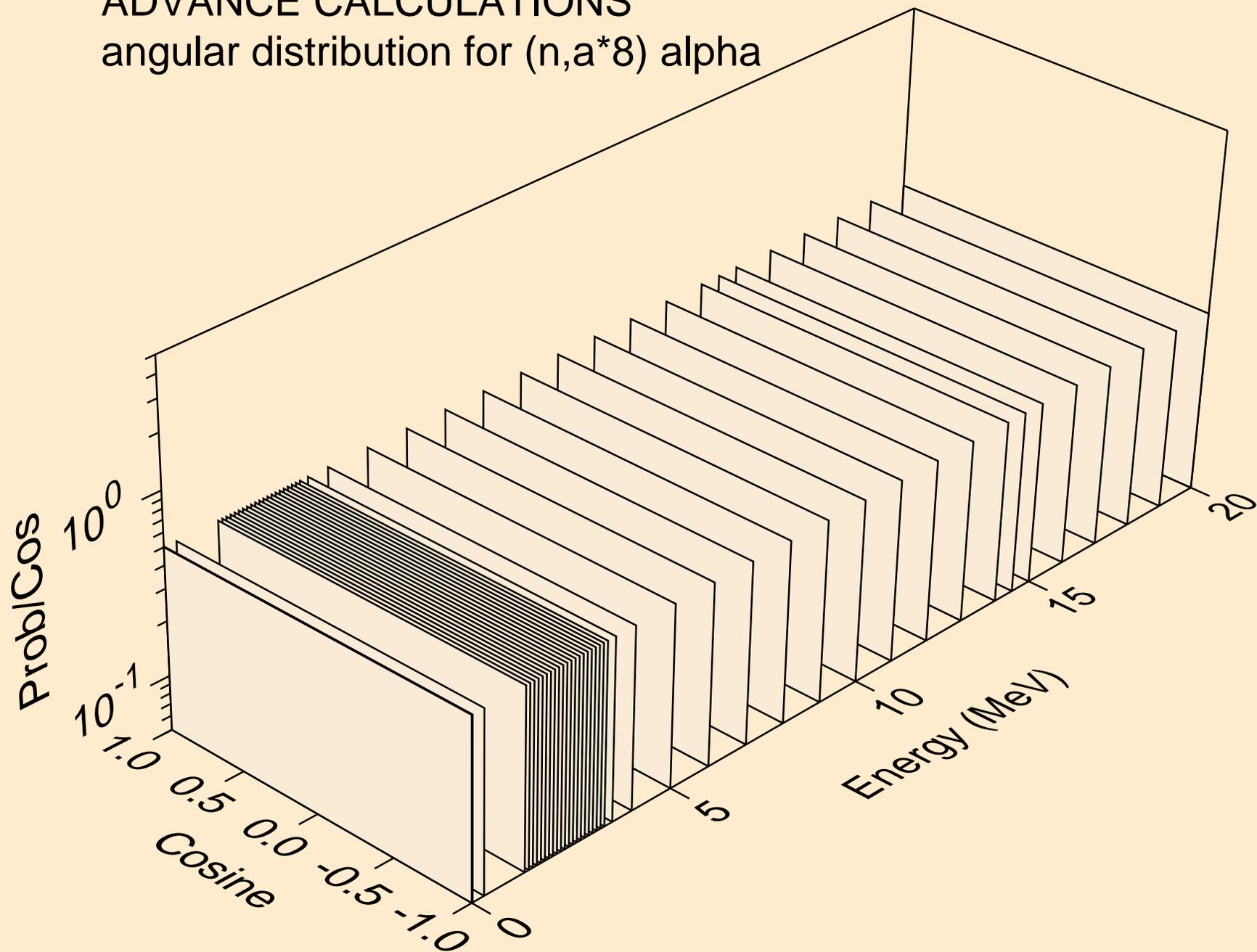
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ )



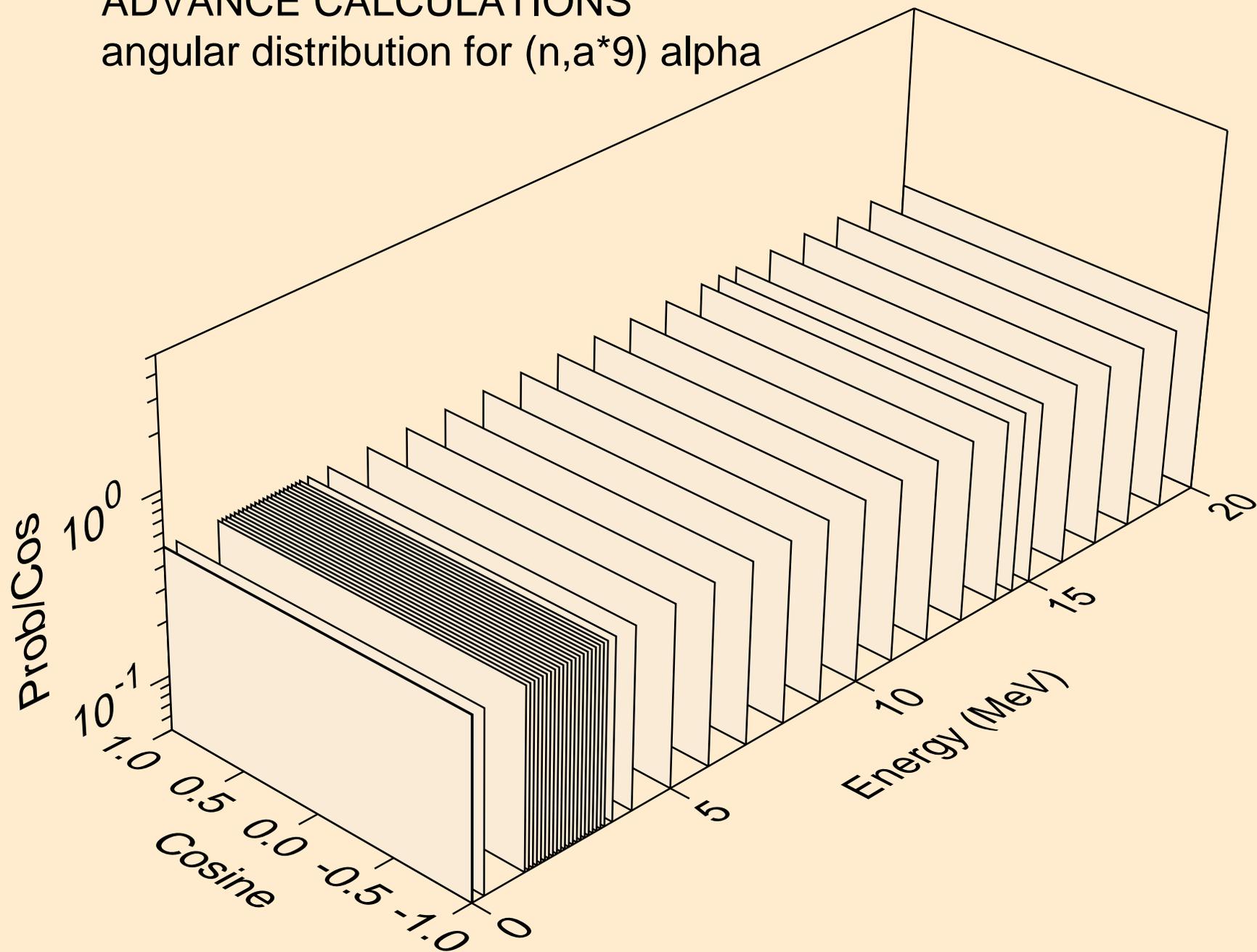
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



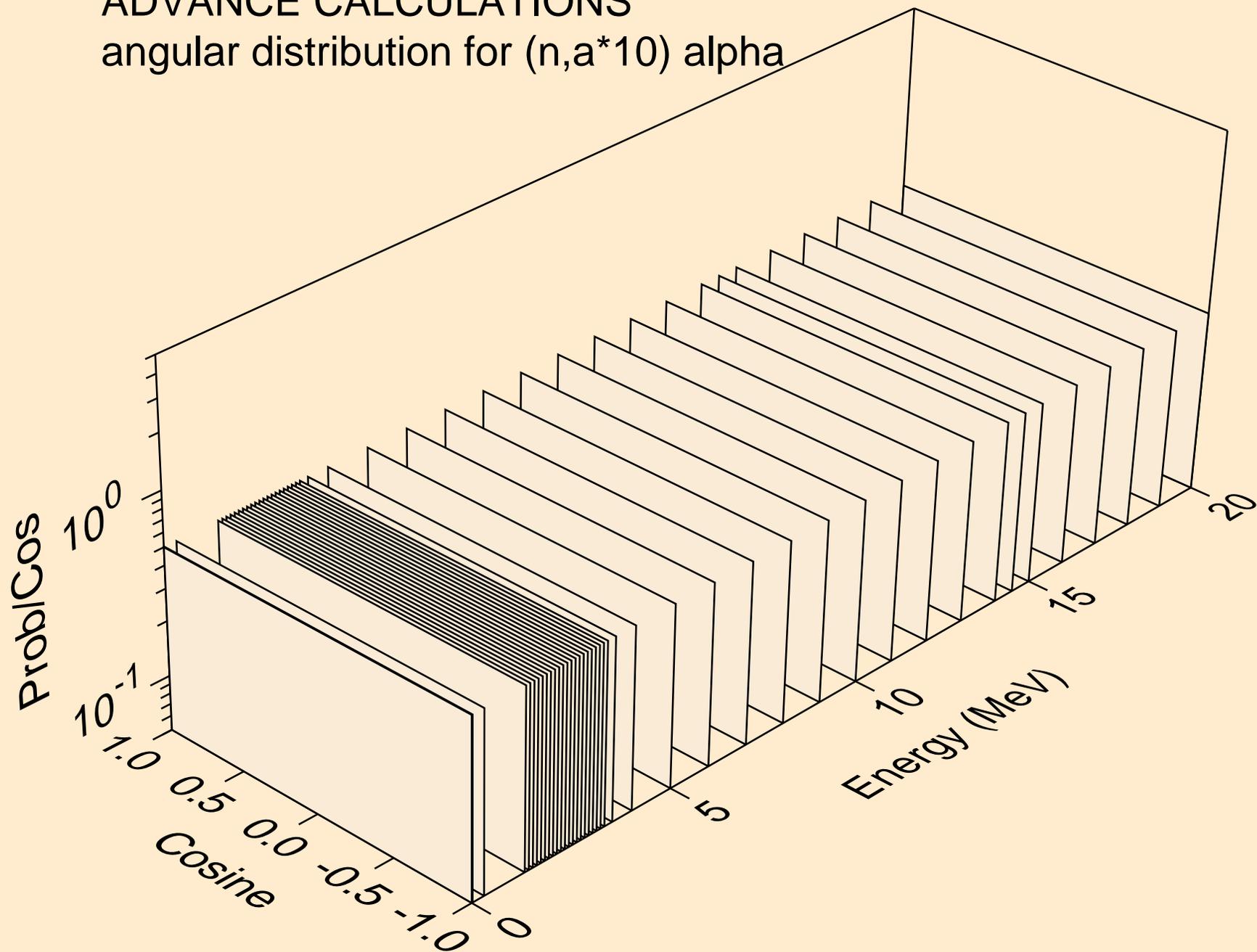
ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ ) alpha



ADVANCE CALCULATIONS  
angular distribution for (n, $\alpha$ \*10) alpha



# ADVANCE CALCULATIONS

alphas from (n,a\*c)

